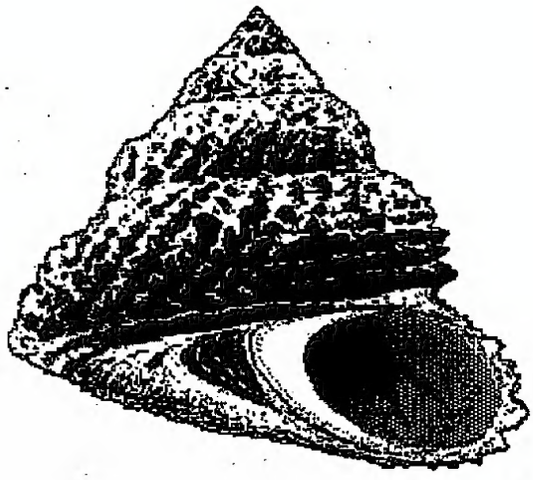
COOKIA



JOURNAL OF THE WELLINGTON SHELL CLUB

NEW ZEALAND

VOLUME 14

SPECIAL ISSUE:

THE WELLINGTON SHELL CLUB LISTS

JUNE 2003

WELLINGTON SHELL CLUB

COOKIA is the journal of the Wellington Shell Club and is published annually, containing articles and smaller items of interest on shells, shell collecting, and molluscs as well as other related marine topics. Members and other readers are invited to submit contributions - handwritten, typed, or electronic (tables to be done in Word not Excel), equally acceptable - and, preferably, these should be in the Editor's hand before the end of May for inclusion in that year's volume (look at a recent issue to see the style to follow, especially for the way of listing "References" or "Literature cited"). Scientific names are the author's responsibility and, therefore, they should be carefully checked for spelling and should follow the latest 'Checklist' by Spencer *et al.* – available from the Club's website at *http://users.actrix.co.nz/littlejn*).

Cookia was first published in 1976; prior to this the Club published a *Circular*, then a *Bulletin*, as well as occasional *Study Notes* on various families of Mollusca.

PUBLICATIONS TO DATE:

1956-1965 *Circular* 1 to 21
1967-1975 *Bulletin* 1 to 36
1976-1977 *Cookia* Volume 1, Nos 1, 2, 3
1977-1978 *Cookia* Volume 2, Nos 1, 2, 3
1979-1980 *Cookia* Volume 3, Nos 1, 2, 3
1980-1981 *Cookia* Volume 4, Nos 1, 2, 3
1982-1984 *Cookia* Volume 5, Nos 1, 2, 3, 4
1985-1992 *Cookia* Volume 6, Nos 1, 2, 3, 4
1993-1996 *Cookia* Volume 7, Nos 1, 2, 3, 4 (Index)
1997 *Cookia* Volume 8
1998 *Cookia* Volume 9
1999 *Cookia* Volume 10
2000 *Cookia* Volume 11
2001 *Cookia* Volume 12
2002 *Cookia* Volume 13
2003 *Cookia* Volume 14

[*Cookia* Volume 7, No. 4, is an index of all articles in the Club's publications to 1996; *Cookia* Volume 14 is a special issue containing "The Wellington Shell Club Lists".]

BACK NUMBERS

Back numbers of *Cookia* are available at cost; individual articles, and copies of the early Bulletins, Circulars and Study Notes can be ordered from *Jill Burnet, 84 Brougham Street, Mt Victoria, Wellington, New Zealand, 'phone 384-7418.*

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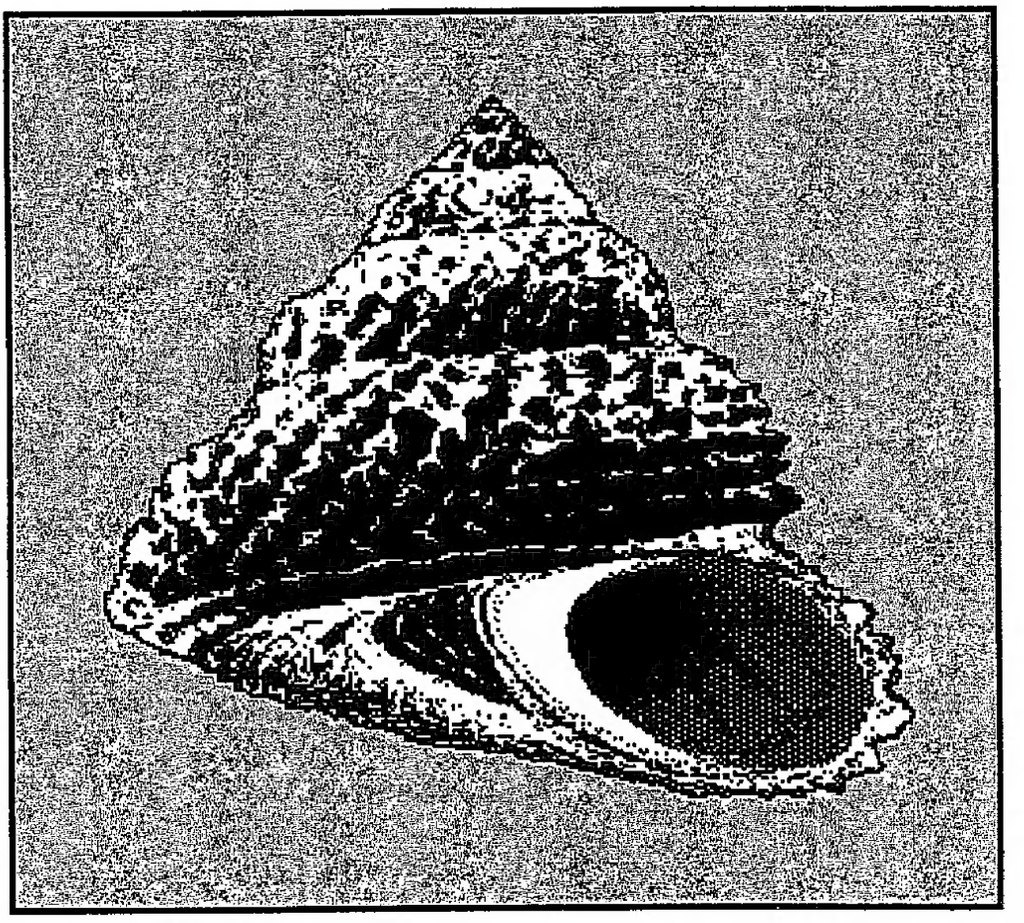
THE WELLINGTON SHELL CLUB LISTS



Compiled by Jenny L Raven

FOREWORD

It is a pleasure to finally produce these lists. The idea of consolidating all previous listings into one list for each major shell collecting area was born in the early 1980s when several Wellington Shell Club members met with the then President, the late Peter Jamieson. We eagerly discussed the concept of producing consolidated lists of the Club's findings with maps and comments accompanying each location. Taking an area each, we set about the task of researching and copying old lists, and it was all go. Unfortunately, we were without computers in those days and did not have the benefit of the 'Index' copy of *Cookia* (Vol.7, No. 4, 1996). The magnitude of the task soon overtook us and all too soon work came to a halt. For many years the uncompleted notes sat in a folder at my home.

By the 1990s computers made the job of producing lists much easier. A trip to Mahia inspired me to produce a consolidated list of Mahia findings at that date. The thought occurred to extend and increase upon this to other areas and the idea of producing consolidated lists was born again.

Over the last five years I have worked away at it, doing a little at a time, with success only coming when I forced myself to concentrate on a few areas only. The temptation was to work on all areas of the country at once. I decided to concentrate on Wellington and its adjacent coastlines. Mahia was also included - and at last the task is complete - of course with any list it never will be. However, it will provide the backbone for all further lists from here, and that is what was intended.

A task such as this cannot be completed alone. These lists could not be produced without the efforts of individual club members and others who have scoured the coastline over many years, observing and recording their findings. Going back through the Club's publications it has been easy to see who the list makers were. These names appeared many times; some are no longer with us but their names and a reference to their written articles follow the written comment accompanying each list. To these tireless workers - a very big thanks!

Use of these Lists

At this stage the lists are far from complete, being a compilation of data recorded by members in Wellington Shell Club publications to date. There will be many species yet to be added. This is because:

- Much of what has been collected is unpublished and yet to be advised to other members.
- Common species appear to have been overlooked in published lists as people often reported on the exceptional.
- Amphineura, Cephalopoda, land and minute species have received little attention over the years.
- There will be many instances where "dead" recordings can be altered to "live" because when previous lists did not record this, it has been taken to be a "dead" sighting.
- Additionally, published sources other than in the Club's series have not yet been fully included.

It is hoped that collectors will copy these lists and update them from their collections and observations in the field and then advise the Wellington Shell Club of any amendments. For live specimens we particularly want to know the situation in which the specimen was found. For rare

additions, we may need to see the specimen or receive more detailed information. The computer record contains provision for a comment to be added such as the date or person's name associated with the finding. Descriptions and photos of most of the species named in the lists can be found in manual *New Zealand Mollusca* by A.W.B. Powell (1979). However, noting many names have changed since 1979; but such changes can found by referring to the latest 'Checklist' by Spencer *et al.* (which is periodically being brought up-to-date 'on line').

Benefits of the Lists

The benefits of the lists are many –

- An up to date consolidated listing will replace the time and need to go back through old lists and publications.
- Names can (as nearly as possible) be kept up to date.
- The written comment accompanying each list contains information and maps on shell locations.
- Identification of shells found at various locations should be easier because there is a very good chance they will be on the list for that area already.
- Our knowledge of the extension of species' ranges will be enhanced with this information.
- The lists will be easy to keep up to date with only amendments and additions to be added from here. They will be maintained by me as Master Copies, and members are invited to send me additions and amendments.
- The lists are available from me as Excel files for those members who wish to add in new data or add their own rows and columns as working documents.
- For those members wanting further information, references to more detailed articles follow the written comment on each locality.

Technical Comment

- Fossil recordings have not been knowingly included.
- Where both live and dead specimens have been reported from the same locality the "live" sighting only is recorded on the list.
- Names have been updated to the latest listing from the "Checklist of Recent Mollusca. Described from the NZ EEZ" by Spencer, Willlan, Marshall and Murray at the time of compiling this text for publication.

Amendments and Additions

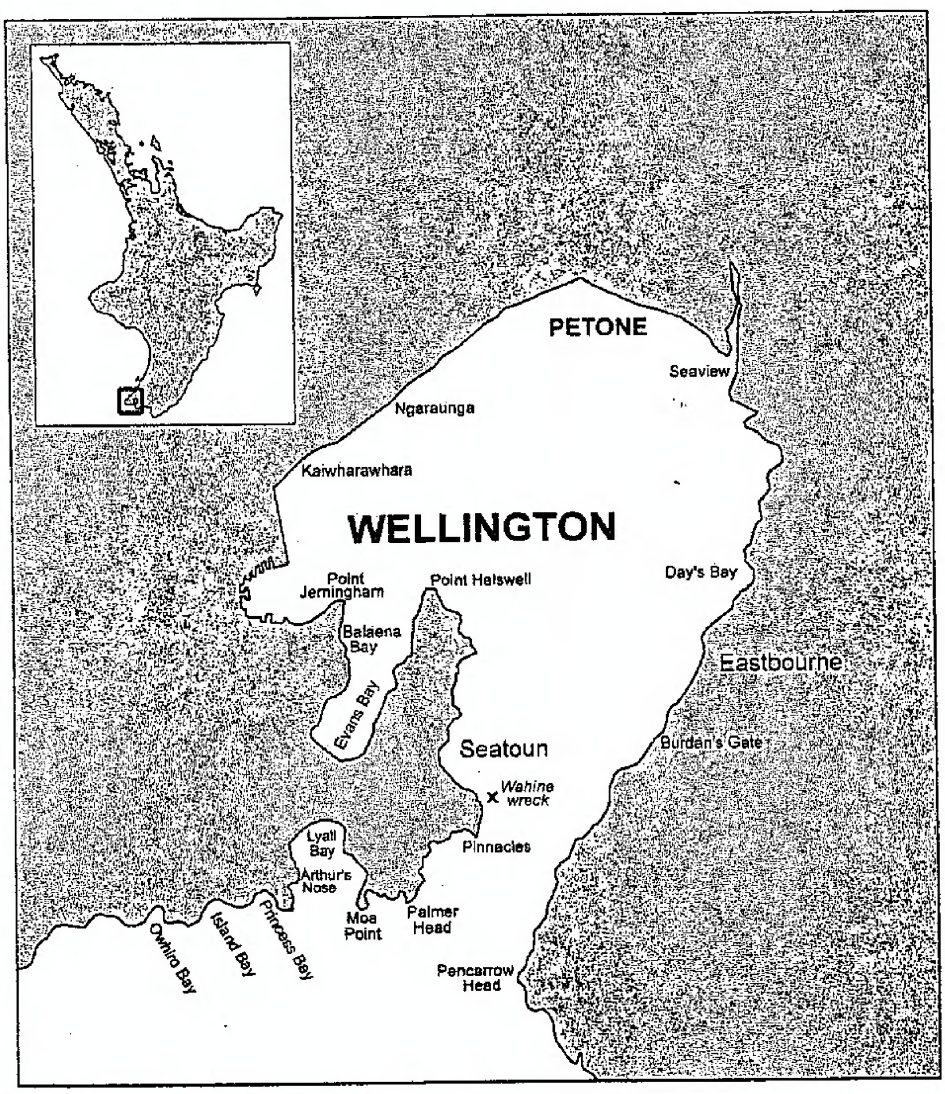
Notwithstanding the care taken in consolidating numerous lists back through many name changes, errors are bound to have crept in. The Wellington Shell Club (c/o The Museum of New Zealand Te Papa Tongarewa, P O Box 467, Wellington) will be pleased to hear from anyone throughout the country interested in shells who may be able to offer amendments or additions to these lists, or who may want to order a copy of the present publication; and, of course, the Club is aways delighted to have new members.

Acknowledgements

I thank Raymond Coory for preparing the maps from my draft copies, Elliot Dawson for editorial help, and Bruce Marshall for checking the species lists and verifying the nomenclature.

SHELLS FOUND IN WELLINGTON HARBOUR

This area covers all of Wellington Harbour out to the quarry entrance at the end of the sealed road at Owhiro Bay and across to Pencarrow Head on the eastern side. Road access to the coast by car or public transport is easy from Owhiro Bay round to Eastbourne. The remainder of the coastline can be accessed by foot. The inner harbour out as far as the south end of Seatoun and Eastbourne beaches provides a reasonably sheltered environment. As a result there are few areas here where shells wash up. Outside of this, wave action intensifies with the coastline becoming a mix of exposed and slightly sheltered environments. The eastern side of the harbour is mainly gravel while the western side consists of sandy beaches and rocky points. Excellent scientific and technical information on the ecology, geology and hydrology of the Harbour is contained in *Te Whanganui a Tara, Wellington Harbour* by the East Harbour Environmental Association, 1998.



OUTER HARBOUR

Best Areas for Shells

- **Owhiro Bay**

  Montfortula chathamensis has been found in shell sand here.

- **Princess Bay**

  The large rock platforms on the left-hand side facing Island Bay are often rich in shell sand.

- **Lyall Bay**

  Lyall Bay includes the coastline south as far as the second grassy platform known as Arthur's Nose. The southern end of Lyall Bay beach where the houses back on to the sand is particularly good for washups. Several *Trivia merces* have been washed up here. *Cantharidus purpureus and Austrofusus glans* are living in the pools with *Diloma coracina* round the periphery. *Cantharidus opalus* can be found on low tide weed. *Calliostoma* species are occasionally found living in the pools. *Haliotis australis* is more common than *H. iris* below low tide. Some uncommon hermit crab-inhabited shells turn up in the rock pools. Occasionally seen alive here are *Benhamina obliquata* and *Micrelenchus tenebrosus*. At the other end of the beach white rock shells are common among the large boulders lining the airport reclamation and broad-based *Calliostoma punctulatum* may be on the blue mussels. From Princess Bay through to Lyall Bay *Cominella virgata* replaces *Cominella maculosa.*

- **Moa Point**

  Moa Point begins at the southern end of the Airport. On the Point past the small group of houses is a rocky peninsula where shells can wash up. It is only accessible at the low tide. *Trivia merces* has been found washed up on the southern side of this peninsula, and patches of shell sand can be found on both sides. From here to Palmer Head *Nerita atramentosa* is occasionally found in mid-tide pools. This is also an area in transition following the closure of the main Wellington sewer which entered the water here. Prior to the closure, *Cellana denticulata* were very large on the northern (sewer) side of the peninsula.

- **Palmer Head**

  This is a wash up area for larger shells particularly *Argobuccinum, Cookia, Turbo smaragdus and Haustrum haustorium. Buccinulum vittatum* is found under low tide rocks.

- **The Pinnacles**

  The area from Palmer Bay (adjacent to Palmer Head on the northern side) to the Pinnacles at the far end of Breaker Bay is the last area of exposed coastline before one enters the shelter of

the harbour proper. The Pinnacles and adjacent rocks are best accessed from the southern end of Seatoun beach. *Trivia merces* is reported from the Pinnacles and a white form of *Buccinulum vittatum* can be found under low tide rocks.

Best Shells

Tugali suteri, Haliotis australis, Cantharidus opalus and *C. purpureus, Diloma coracina, Thoristella chathamensis, Calliostoma punctulatum, Argobuccinum pustulosum tumidum, Cominella virgata, Benhamina obliquata, Protothacca crassicosta, Pseudarcopagia disculus, Cleidothirus albidus.*

Rare Finds

Xymene aucklandica, Trivia merces, Gari convexa.

TRANSITIONAL AREAS

Best Areas For Shells

- **Seatoun Beach**

The sandy beach at Seatoun is protected from the southerly wave action by the Breaker Bay peninsula. Mussels become increasingly common on the rocks from here on into the harbour. Alive on rocks at the southern end of the beach, striped *Buccinulum linea* have been found along with *Perna canaliculus* and *Mytilus galloprovincialis. Gari stangeri, Ruditapes largillierti* and *Trochus tiaratus* are commonly washed up at the southern end of Seatoun beach. The inter-island ferry *Wahine* sank off Steeple Rock at the south end of Seatoun beach in 1968, and when pieces of the wreck were brought ashore during the next five years many Wellington Shell Club members took the opportunity to collect a variety of deeper water shell species in good condition.

- **Eastbourne**

Lepsithais lacunosus and *Penion sulcatus* are occasionally found on this side of the harbour. The best area for washups is where the southern end of Eastbourne beach meets Muritai road. The same assemblage of shells is found here as is found at the southern end of Seatoun beach i.e. *Ruditapes largillierti, Gari stangeri and Trochus tiaratus.* In addition, paired valves of *Myadora striata* and sponge-adhering *Talochlamys zelandiae* are frequently cast ashore here. Public Road access ends at Burdan's Gate and the coastline south to Pencarrow becomes increasingly rougher and more exposed.

Best Shells

Buccinulum linea, Buccinulum vittatum, Gari stangeri, Ruditapes largillierti.

Rare Finds

Lepsithais lacunosus, Penion sulcata, Talochlamys zelandiae.

INNER HARBOUR

Best Areas For Shells

- **Point Jerningham**

  From Balaena Bay to Point Jerningham there are many turnable rocks. *Buccinulum vittatum* is common here. This variety is larger, striped and smooth in comparison with those found south of the Pinnacles.

- **Petone Beach**

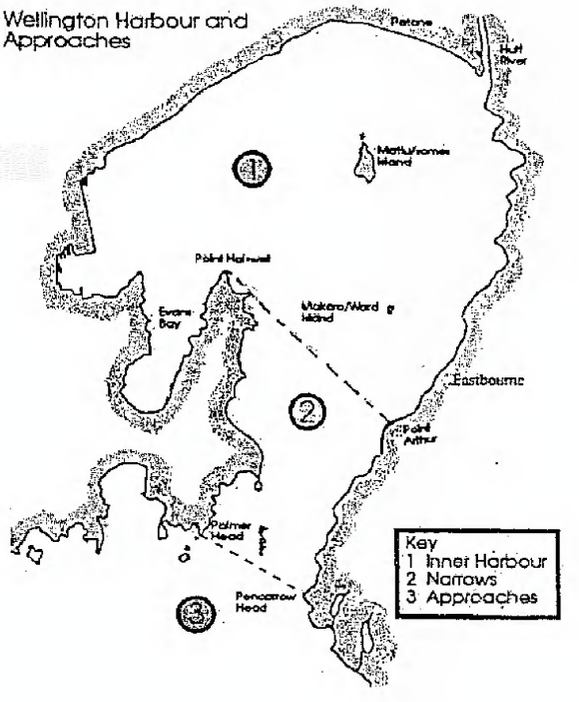
  This beach has been much improved with the removal of heavy industry from the waterfront area. The Wellington City end of Petone beach is the best area to find shell washups. *Macomona liliana* are not uncommonly washed up here. After storms live *Oxyperas elongata* and *Cyclomactra tristis* have been cast ashore on the beach.

  Best Shells
  Macomona liliana, Buccinulum vittatum.

  Rare Finds
  Oxyperas elongata, Cyclomactra tristis.

* Comment on Previous Harbour Zones

The records used to compile the Wellington list go back many years. *Wellington Shell Club Circular* Number 12 in 1960 contained one of the first consolidated lists. Shells were recorded as being found within one of three zones within the harbour (refer to the figure below). The records of Iredale and Mestayer from 1908 along with the Museum of New Zealand Te Papa Tongarewa records are have been included in these lists. The lists have been updated and published several times since, the most recent being by Bruce Marshall in *Cookia* 9, 1998. The 1998 list is included in the latest Wellington list under the heading " Harbour Zones" where an asterisk denotes a live specimen.



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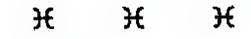

SHELLS FOUND IN WELLINGTON HARBOUR

Name	Owhiro Bay	Island Bay	Houghton/ Princess Bays	Lyall Bay	Moa Point to Palmer Head	Palmer Bay to Pinnacles	Wahine Wreck	Seatoun Beach to Pt Halswell	Evans Bay to Oriental Bay	Wgtn. Wharves to Seaview	Seaview to Days Bay	Eastbourne to Burdan's Gate	Burdan's Gate to Pencarrow	Harbour Zones (refer to Notes)	Comment	Occurrence
CAUDEOFOVEATA																
Proneomenia quincarinata		L												3*	Primitive, worm like	
AMPHINEURA																
Leptochiton inquinatus		L												3*	Under low tide rocks	
Ischnochiton maorianus		L					L						D	1,2*,3*	Under low tide rocks	
Callochiton crocinus														2,3		
Callochiton kapitiensis														3		
Eudoxochiton nobilis		L				L								2,3*	Under low tide rocks	
Lorica haurakiensis							L							2*		
Plaxiphora biramosa														3		
Plaxiphora caelata														3		
Plaxiphora egregia														3*		
Chiton glaucus		L											L	1*,2*,3*	Under low tide rocks	
Rhyssoplax aerea		L												3	Under low tide rocks	
Sypharochiton pelliserpentis		L											L	1,2,3*	Under low tide rocks	
Onithochiton neglectus		L					L							1,2,3*	Under low tide rocks	
Acanthochitona zelandica		L												2*,3*	Under low tide rocks	
Cryptoconchus porosus		D					L							1*,2*,3*		
Notoplax mariae													D	2*		
Notoplax violacea		L												2*,3*	Under low tide rocks	
Pseudotonicia cuneata														1*		
GASTROPODA																
Cellana denticulata	L	L	L	L	L	L							L	2*,3*	Mid tide rocks; large by sewers	C
Cellana ornata			D	L	L	D			L				L	1,2,3*		C
Cellana radians	D	L	L	L	L	D			L				L	1,2,3*		C
Cellana stellifera	D	D	D	D	D	D							D	2,3*		
Asteracmea suteri														3		
Atalacmea fragilis	L	L	D	D	L	L								2*,3*	Under smooth low tide stones	C
Notoacmea elongata		D		D	L									3*	With *Atalacmea fragilis*	

The Wellington Shell Club Lists

(C) Common; (U/C) Uncommon; (R) Rare

SHELLS FOUND IN WELLINGTON HARBOUR

Name	Owhiro Bay	Island Bay	Houghton/ Princess Bays	Lyall Bay	Moa Point to Palmer Head	Palmer Bay to Pinnacles	Wahine Wreck	Seatoun Beach to Pt Halswell	Evans Bay to Oriental Bay	Wgtn. Wharves to Seaview	Seaview to Days Bay	Eastbourne to Burdan's Gate	Burdan's Gate to Pencarrow	Harbour Zones (refer to Notes)	Comment	Occurrence
Notoacmea helmsi	L	L			L				L			L		1		
Notoacmea parviconoidea				L									L	3*	Amongst blue mussels	C
Notoacmea pileopsis	L												D	1,2,3*		
Notoacmea scopulina														3		
Patelloida corticata	L	L	L	L	L	D			L					1,2,3*	On extreme low tide rocks	C
Radiacmea inconspicua	D	L	D	D	L	D							D	1,2,3*	On backs of paua	C
Incisura lytteltonensis		L		D										1,2,3*	On low tide rocks and brown weed	C
Scissurona rosea		L												2,3*	Brushed from the undersurface of low tide rocks	C
Scissurella prendrevillei														3		
Sinezona brevis				L										3*		
Sinezona laqueus														3		
Sinezona levigata														3		
Sukashitrochus lyallensis														3		
Haliotis iris	L	L	L	L	L	L	L	L	L		L	D	L	1,2*,3*	On/ under rocks below low tide	C
Haliotis australis	L	L	L	L	L	L						D	D	1,2*,3*	On/ under rocks below low tide (predominant paua at Lyall Bay)	C
Haliotis virginea			D	D										1,2,3		U/C
Emarginula striatula	D	L	D	D	D									1,2,3	Under large boulders	U/C
Montfortula chathamensis	L													3*	Mid tide brackish pools	R
Scutus breviculus		L	L	L	L	L						D	L	1,2,3*		C
Tugali suteri	D		D	D	D	D								2*,3	In shell sand	C
Cantharidella tessellata	D	L	L	L	D	D							D	1,2,3*	Abundant on weed	C
Cantharidus opalus	D	D	D	L	D	D							D	1,2,3*	On brown weed below low tide	C
Cantharidus purpureus	D		L	L	D	D	D						L	1,2,3*	On brown weed below low tide	C
Diloma arida		D			D								L	2,3*		
Diloma nigerrima	D	L	L	L	L	D							D	2,3*	Among mid tide rotting weed	C
Diloma coracina				L										3*	Just above water line in sandy midtide pools	U/C
Diloma bicanaliculata	L		D	L	L									1,2,3*	Often with *Atalacmea fragilis*	C
Diloma subrostrata											D			1*,2		
Diloma zelandica			L	L	L	D			L				L	2,3*		
Melagraphia aethiops	D	L	L	L	L	D			L				L	1,2,3*	On/ under low tide rocks	

(C) Common; (U/C) Uncommon; (R) Rare

SHELLS FOUND IN WELLINGTON HARBOUR

Name	Owhiro Bay	Island Bay	Houghton/ Princess Bays	Lyall Bay	Moa Point to Palmer Head	Palmer Bay to Pinnacles	Wahine Wreck	Seatoun Beach to Pt Halswell	Evans Bay to Oriental Bay	Wgtn. Wharves to Seaview	Seaview to Days Bay	Eastbourne to Burdan's Gate	Burdan's Gate to Pencarrow	Harbour Zones (refer to Notes)	Comment	Occurrence
Micrelenchus huttonii														1*		C
Micrelenchus sanguineus	D		D	L		D								1,2,3*		C
Micrelenchus tenebrosus	D			L									D	3*	Washed in live among weed	U/C
Micrelenchus artizona							D							1,3		
Micrelenchus dilatatus	D	L	D	D	D	D	D							1,2,3*	On weed at low tide	C
Thoristella chathamensis	D	L	L		D									2,3*	Under rocks at low tide	C
Trochus tiaratus				L		D	D						D	2,3*		C
Trochus viridis	D		D	L		D							D	3*		U/C
Brookula corulum				D										3		C
Herpetopoma alacerrima			D											3	In shell sand	R
Herpetopoma bella	D	L	L	D										1,2,3*	Under low tide stones	
Liotella polypleura		L												3*	Brushed from the undersurface of low tide rocks	C
Antisolarium egenum				D			D							1,2,3		
Zethalia zelandica				D										3		C
Calliostoma punctulatum	D	L	D	L	D	D	D						D	1,2,3*	Some have very squat shape	
Calliostoma selectum				D										3	Not seen recently	R
Calliostoma tigris				L	D									3	Washed in on weed	U/C
Calliostoma waikanae				D										3		R
Astraea heliotropium				D										1,3		U/C
Cookia sulcata	D			L	D	D							D	1,2,3*		C
Modelia granosa		D		D										2,3		R
Turbo smaragdus	L	L	L	L	L	D			L			D	D	1,2,3*	Low tide pools/ under rocks	C
Dolicrossea vesca														3		
Zalipais lissa	D	L												3*	On low tide rocks and brown weed	C
Nerita atramentosa		L			L									3*	Loners in small mid tide pools	U/C
Zeacumantus lutulentus	D	L			L				L					1*		
Zeacumantus subcarinatus		D	D	L	D	D	D		D				D	1,3*		
Maoricolpus roseus				L	D		D				L			1,2,3*		
Zeacolpus vittatus														1		
Zeacolpus pagoda							D						D	2,3		
Serpulorbis zelandicus						D							D	2,3		
Tenagodus maoria														3		

(C) Common; (U/C) Uncommon; (R) Rare

SHELLS FOUND IN WELLINGTON HARBOUR

Name	Owhiro Bay	Island Bay	Houghton/ Princess Bays	Lyall Bay	Moa Point to Palmer Head	Palmer Bay to Pinnacles	Wahine Wreck	Seatoun Beach to Pt Halswell	Evans Bay to Oriental Bay	Wgtn. Wharves to Seaview	Seaview to Days Bay	Eastbourne to Burdan's Gate	Burdan's Gate to Pencarrow	Harbour Zones (refer to Notes)	Comment	Occurrence
Zerotula bicarinata				D										2,3		
Nodilittorina antipodum	L	L	L	L	L	L			L				L	1,2*,3*	On mid - high tide rocks	C
Nodilittorina cincta		L	L	L	L	L	D		L				L	1,2*,3*	On mid - high tide rocks	C
Risellopsis varia	L	L	L	L									L	1,2,3*		C
Laevilitorina aucklandica							D							2,3		
Eatoniella albocolumella				D										1*,3*		
Eatoniella atropurpurea		L												3*	Brushed from the undersurface of low tide rocks	C
Eatonina atomaria	L													1*,2,3*		
Eatoniella delli														1*,3*		
Eatoniella dilatata														2,3		
Eatoniella limbata			D	D			D							2,3*		
Eatoniella lutea		L	D~	L										2*,3*	On brown weed at low tide	C
Eatoniella lampra				L										2*,3*		
Eatoniella mortoni														2*,3*		
Eatoniella notalabia		L												3*	On brown weed at low tide	
Eatoniella olivacea		L		L										1*,2*,3*	On brown weed at low tide	
Eatoniella pfefferi		L												3*	On low tide rocks and brown weed	
Eatoniella roseocincta														3		
Eatoniella roseola														2		
Eatoniella varicolor		L												2*,3*	On brown weed at low tide	C
Tubbreva exaltata														1*		
Tubbreva exigua		L												1*,3*	Brushed from the undersurface of low tide rocks	C
Amphithalamus latisulcus														3*		
Amphithalamus semen														2,3		
Anabathron hedleyi		L		L										2,3*	Brushed from the undersurface of low tide rocks	C
Pisinna olivacea impressa				D										1,2,3		
Pisinna rekohuana														2,3*		
Pisinna zosterophila				L										3*		
Fictinoba camosa							D									

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Merelina lyalliana		L	D	L										2,3*	Brushed from the undersurface of low tide rocks	
Onoba foveauxiana				D			D							2,3		
Onoba fumata		L		D										2,3	Brushed from the undersurface of low tide rocks	
Onoba insculpta				D										3		
Onoba delli														3		
Powellisetia subtenuis														3		
Pusillina hamiltoni		L	D	L										2,3*	On brown weed at low tide	C
Pusillina infecta		L	D											3*	Brushed from the undersurface of low tide rocks	
Rissoina chathamensis	D	L	D	L			D							1,2,3*	Brushed from the undersurface of low tide rocks	
Suterilla neozelanica		L												3*		
Nozeba emarginata				D										2,3		
Elachorbis subtatei				D			D							2,3		
Caecum digitulum			D	D										3*	In shell sand	
Struthiolaria papulosa				D		D							D	1*,2,3		U/C
Pelicaria vermis													D	2		
Maoricrypta sodalis	D		D	D	D		D						D	1,2,3		C
Sigapatella novaezelandiae	D		D	L	D	D	D					D	D	1,2,3*		C
Sigapatella tenuis				D			D						D	1*,2,3		
Trichosirius inornatus			D	D	D									1,2,3		U/C
Trivia merces				D	D	D								3		R
Lamellaria cerebroides														3		
Lamellaria ophione				D										3		
Tanea zelandica	D		D	L	D	D	D					L	D	1,2,3*	Dredged offshore	C
Semicassis pyrum				D										2,3		R
Argobuccinum pustulosum tumidum	D		D	D	D	D	L						D	1,2*,3*	Washed ashore; best at Palmer Head	U/C
Cabestana spengleri				L	D									3*		U/C
Prolixodens infracolor				D										3		
Seila cincta									D						Edge of rock pool Shelly Bay	
Synthopsis acuminata														3		

The Wellington Shell Club Lists

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SHELLS FOUND IN WELLINGTON HARBOUR

Name	Owhiro Bay	Island Bay	Houghton/ Princess Bays	Lyall Bay	Moa Point to Palmer Head	Palmer Bay to Pinnacles	Wahine Wreck	Seatoun Beach to Pt Halswell	Evans Bay to Oriental Bay	Wgtn. Wharves to Seaview	Seaview to Days Bay	Eastbourne to Burdan's Gate	Burdan's Gate to Pencarrow	Harbour Zones (refer to Notes)	Comment	Occurrence
Tasmalira vitrea														3		
Zaclys murdochi				D										3		
Sagenotriphora ampulla														2		
Teretriphora huttoni							D							3		
Metaxia exaltata														3		
Epitonium jukesianum			D	L										3*	In shell sand	U/C
Janthina exigua			D	D										3		U/C
Janthina janthina														3		
Graphis blanda														3		
Larochella alta		L												3*	On low tide rocks and brown weed	C
Larochella toreuma		L	D											3	Brushed from the undersurface of low tide rocks	
Fusceulima murdochi				D										3		
Curveulima titahica				D										3		
Comptella sp.				D										3		
Uttleya marwicki														1,2		
Xymene aucklandicus			D											3	In shell sand	R
Xymene ambiguus				D			D					D		2,3		
Xymene plebeius														1*		
Xymene pusilla							L		L					1,2*		
Xymene traversi	D	L	D	L	D									2,3*	On/ under rocks ext low tide	U/C
Dicathais orbita	L	L	L	L	L	D							D	1,2,3*	Best at Lyall Bay on rocks beside Airport	C
Haustrum haustorium	L	L	L	L	L	L			L			L	L	1*,2*,3*	On low tide rocks	C
Lepsiella albomarginata				L										1,3*		
Lepsiella scobina	L			L	L	D							D	3*	On mid to high tide rocks	C
Lepsithais lacunosus				D							L		L	2,3*		
Austrofusus glans				L			D						D	1,2,3*	In sand pools western end	C
Buccinulum linea	D		L	D			D	L					D	1,2*,3*	Sandy runnels low tide rocks	U/C
Buccinulum pallidum	L		D	L										2*	Sandy runnels low tide rocks, white colour (could be *Buccinulum linea*)	U/C

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SHELLS FOUND IN WELLINGTON HARBOUR

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Buccinulum vittatum	L	L	L	L	L	L			L			L	D	1,2*,3*	Under low tide rocks. Vary in shape and size from outer harbour to inner harbour	C
Cominella adspersa				D			D	D				L	L	1*2,3		
Cominella glandiformis														1*		
Cominella maculosa	L	L	L	L	L	L	D		L			L	D	1,2*,3*	Part burried in gravel at low tide	C
Cominella virgata	L			L	L	L			L					1,2*,3*	Part buried in gravel at low tide. In less exposed areas than *maculosa*	C
Penion sulcatus				D			D		L		L	L	D	1*2,3		R
Macrozafra nodicincta				D										3		
Macrozafra subabnormis			D	D										3		
Paxula paxillus		L		D										3	Brushed from the undersurface of low tide rocks	
Zemitrella choava				D			D							3*		
Zemitrella rosea	D		D	L	D									3*		
Alcithoe arabica				D			D		L		L	L		1*,3		R
Alcithoe fusus					D								D	2,3		R
Amalda australis			D	D	D	D	D						D	2,3		C
Amalda depressa				D										3		
Amalda mucronata				D		D	L		L					1,2,3		U/C
Amalda novaezelandiae							D							1,3		
Dentimargo cairoma		L	D	L										3*	Brushed from the undersurface of low tide rocks	
Mesoginella larochei							D							2		
Austomitra angulata														3		
Austromitra rubiginosa		L	D	D			D							2,3	On /under rocks at extreme low tide	
Phenatoma rosea														1,2		
Phenatoma zealandica							D									
Tomopleura albula							D							1,2		
Liracraea odhneri		L		D										1,3	Brushed from the undersurface of low tide rocks	
Neoguraleus lyallensis			D	D										1,2,3		C

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SHELLS FOUND IN WELLINGTON HARBOUR

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Neogyraleus murdochi			D	D										3		
Neogyraleus sinclairi			D	D			D							2,3		C
Pervicacia tristis				D			D							2,3		
Orbitestella parva		L												3*	Brushed from the undersurface of low tide rocks	C
Orbitestella toreuma		L												3*	Brushed from the undersurface of low tide rocks	
Brookesena succincta														3		
Rissoella elongatospira		L												3*	Brushed from the undersurface of low tide rocks	
Rissoella flemingi														3*		
Rissoella rissoaformis														3*		
Rissoella cystophora		L												3*	On low tide rocks and brown weed	C
Rissoella micra														3*		
Omalogyra fusca														3*		
Agatha georgiana		D														
Evalea sabulosa				D										2,3		
Gumina dolichostoma				D										2,3		
Linopyrga rugata				D										1,2,3		
Odostomia vaga														1,2		
Odostomia sp.														1,2,3		
Chemnitzia zealandica				D			D							2,3		
Eulimella sp.				D										3		
Striarcana cryptolira				D										3		
Cylichnina opima														3		
Retusa oruaensis				D			D							2,3		
Philine auriformis														1		
Philine powelli				D										3		
Melanochlamys cylindrica														3		
Aplysia juliana														3		
Aplysia keraudrini														3		
Aplysia parvula														3		
Limacina sp.														3		

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Diacria trispinosa				D										3		
Berthella medietas														2		
Berthella ornata				D										2,3		
Pleurobranchaea maculata														3		
Okadaia cinnabarea														3		
Archidoris wellingtonensis														1*2,3		
Atagema carinata														1		
Chromodoris aureomarginata														2		
Cadlina willani														3*		
Janolus novozealandicus														1		
Onchidella flavescens														1		
Onchidella nigricans														1,2		
Smeagol climoi			L											3*	Under large high tide rocks on gravel (Houghton Bay)	
Trimusculus conicus	D		L		D									3	Under stones	U/C
Benhamina obliquata	D	L	D	L	D									3*	On dark side of mid tide rocks	U/C
Siphonaria australis	L	L	L	L	L	D	D		L				D	1,2,3*	In mid tide rock pools	C
Siphonaria propria			L	L										3*	On rocks and mussels	U/C
Amphibola crenata	D			D									D	1*,3		
Leuconopsis obsoleta		L												3*	In mid tide crevices	
Marinula filholi		L	L	D	D									2,3*	Under damp high tide rocks	C
BIVALVIA																
Solemya parkinsonii				D			D							1*,2,3		
Austronucula schencki														3		
Leionucula strangei									D					1*	Dredged	
Nucula hartvigiana		L	D	D			D							1*,2,3*	In low tide gravel	
Nucula nitidula				D			D							3*		
Pronucula sp.														3*		
Saccella bellula														1		
Neilo australis							D		D	L				1*	Dredged from harbour floor	
Barbatia novaezelandiae	D		D	D		D	L		L				D	2,3		U/C

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SHELLS FOUND IN WELLINGTON HARBOUR

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Acar sandersonae			D											3		U/C
Glycymeris modesta				D		D	D						D	2,3		
Tucetona laticostata				D			L		L			D	D	1,2,3		
Cosa costata				D			D							3		
Cosa filholi				D										2,3		
Lissarca trapezina				D										3		
Philobrya munita				D										3		
Perna canaliculus				L	D	D	L		L		L	D	L	1*,2*,3*	Very large at Eastbourne	C
Mytilus galloprovincialis				L	D	D	L		L		L	D	L	1*,2*,3*		C
Verticipronus mytilus				D										3		
Zelithophaga truncata				D										3		
Aulacomya atra maoriana	D		D	L		D	D		L		L		D	1*,2*,3*		
Modiolus areolatus	D		D	D		D								1*,2*,3*		
Xenostrobus pulex	D		L	D	L						L	L	L	1*,2*,3*		
Modiolarca impacta							D						D	1,2*,3		
Trichomusculus barbatus			D	D										3		
Atrina zelandica				D			L	L		L		L	D	1,2*,3		U/C
Crassostrea gigas				D										3*		
Ostrea chilensis				D		D	D	L	L	L		L	D	1,2,3	Below low tide	
Mesopeplum convexum														1		
Pecten novaezelandiae							D		D	L		L	D	1,2,3	Below low tide	
Talochlamys zelandiae	D		D	D		D	L		L			D	D	1*,2*,3*	In sponge	U/C
Talochlamys gemmulata				D			L					D		1*,2*,3		
Cyclochlamys transenna				D										3		
Pododesmus zelandicus							L							2*,3		
Limatula maoria				D		D	D							2,3		
Divalucina cumingi				D			D							3		U/C
Diplodonta globus				D			D							1*,2,3		
Diplodonta striatula														1,2		
Lasaea hinemoa		L		D										1, 2,3*	In mid tide damp crevices	C
Lasaea maoria		L												3	Undersides of mid - high tide stones on gravel	C
Arthritica bifurca				D										1*,2,3		

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SHELLS FOUND IN WELLINGTON HARBOUR

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Arthritica crassiformis									D					1		
Borniola decapitata				D										3		
Borniola reniformis	D	L		D			D						D	1, 2,3*	Brushed from the undersurface of low tide rocks	
Melliteryx parva				L										1*, 3*		
Myllita stowei		L	D	D			D							3	Under low tide rocks	U/C
Kellia cycladiformis		D		D										3		
Mysella hounselli														1*		
Mysella unidentata				D										3		
Divariscintilla maoria				D										3		
Scintillona zelandica				D										1*,3		
Kidderia costata				D										3		
Neolepton antipodum														1, 2,3*		
Pachykellya minima														3		
Puyseguria cuneata														3		
Anisodonta alata				D										1,3		
Cardita aoteana	D	L	D	D		D	L						D	2,3*	Brushed from the undersurface of low tide rocks	U/C
Pleuromeris marshalli														2		
Purpurocardia purpurata														2		
Pratulum pulchellum									D	L				1*2	Dredged at 20m.	
Cyclomactra ovata														1*		
Cyclomactra tristis											L			1		
Mactra discors				D							D	D		1,3		
Maorimactra ordinaria				D										3		
Oxyperas elongata												D	D	1,2		
Scalpomactra scalpellum							D							1,2		
Spisula aequilatera				L										3*		
Resania lanceolata														3		
Zenatia acinaces				D										1*,3		
Paphies australis				D		D			L	L	L		D	1*, 2,3		
Paphies subtriangulata				L						L			D	3*		U/C
Elliptotellina urinatoria							D							2		

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Macomona liliana			D	D						L	L	D		1*, 2,3		
Moerella huttoni							L							1,2*		
Peronaea gaimardi				D			D							3		C
Pseudarcopagia disculus		D	D	L		D	D		D				D	1, 2,3*		
Tellinota edgari														1*		
Gari stangeri				D	L	D	D		D			D	D	1,2,3		R
Gari convexa				L								D		1,3*		
Gari lineolata						D	D					D		1*, 2,3		
Soletellina nitida														2,3		
Soletellina siliquens														1*		
Leptomya retiaria				D			D							1*, 2,3		
Theora lubrica														1*		C
Dosina zelandica				D			D						D	1*2,3		
Austrovenus stutchburyi				L		D				L	L		D	1*2,3*		
Bassina yatei				D									D	1*, 2,3		C
Protothaca crassicosta	L	L		L	L	D							D	1,2*,3*	Buried in low tide gravel	
Tawera spissa				L		D	D		L			L	D	1,2,3*	Juveniles in sand at low tide	
Dosinia lambata							D							1*,3		
Dosinia anus				L									D	3*		
Dosinia greyi							L		D					1*,3	Dredged at 20m.	
Dosinia maoriana				D			D						D	2,3		
Dosinia subrosea				L			D					L	D	3*		
Notocallista multistriata														1		
Irus reflexus				D			D							3*		C
Irus elegans	D	D	D	D										1,3		
Ruditapes largillierti			D	L		D	D		D			L	D	1* 2,3*		
Corbula zelandica			D	D			D							1*,2,3		
Hiatella arctica	D		D	D			L							1,2,3*		
Panopea smithae														1,3		
Panopea zelandica				D			D			L	L	D	D	1,2,3	On harbour floor	
Barnea similis											D			1	In soft argillites at Day's Bay	
Pholadidea suteri														1		
Lyrodus pedicellatus														1*		

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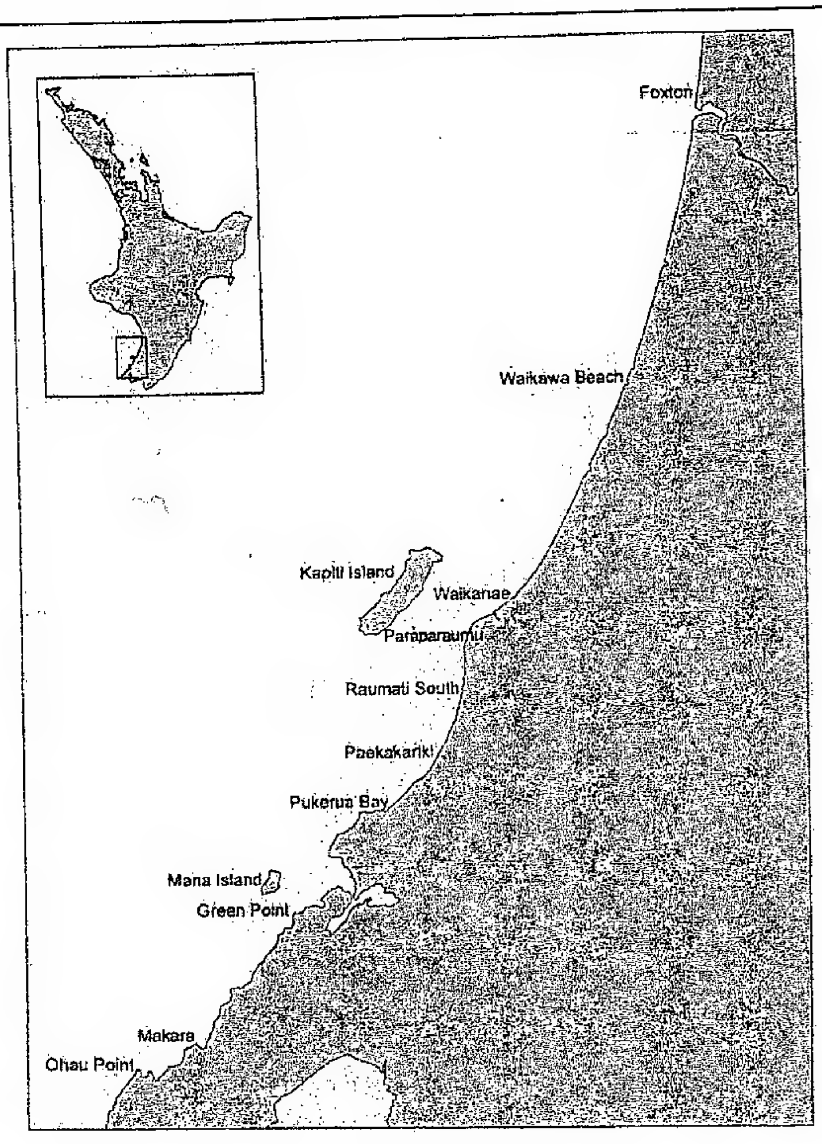
Bankia australis														1*		
Bankia neztalia														1* 3		
Nototeredo edax														1*		
Cuspidaria trailli									D					1	Dredged at 20m.	
Thracia vegrandis														2*		
Thracia vitrea							D		D					1*,2	Dredged at 20m.	
Myadora striata				D		D	D					L	L	2,3		C
Myadora boltoni							D									
Myadora subrostrata							D									
Hunkydora novozelandica							D									
Cleidothaerus albidus				D									D	2,3		U/C
SCAPHOPODA																
Cadulus teliger														1		
CEPHALOPODA																
Sepioloidea pacifica														1		
Sepioteuthis australis														1		
Nototodarus sloanii														2		
Octopus huttoni														2* 3*		
Pinnoctopus cordiformis														2* 3*		
Argonauta nodosa				D								D		3	Sometimes seen March/ April	R

(C) Common; (U/C) Uncommon; (R) Rare

SHELLS FOUND ON LOWER NORTH ISLAND WEST COAST
(Ohau Point to Foxton)



Ohau Point to Pukerua Bay

This area covers the exposed open rocky coastline south of Makara to the end of the rocks north of Pukerua Bay. It excludes Porirua Harbour and the harbour entrance from Onehunga Bay across to Hongoeka Bay.

Best Areas for Shells

- **Makara**

  Makara is approximately 30 minutes drive by car from Karori, Wellington. The road ends at a carpark and exposed gravel beach. The coastline to the south is easily accessed along a rough walking track for several kilometres. To access the area to the north it is necessary to wade across the stream mouth on a very low tide. From here you can walk north for several kilometres.

- **Green Point**

Green Point is south of Titahi Bay. Continue through the gates at the end of Moki Street to the end of the road in front of the sewage treatment station. It is necessary to scramble down a steep track in front of the sewage station to get onto the beach. Green Point is about a half hour walk along a rocky coastline south from here. There are lots of washed up shells about the Point and it is one area around Wellington that *Tucetona* is common. *Mitra carbonaria* has been found washed up here. Paua (*Haliotis*) shells are abundant. About 20 minutes walk further south is a nice sandy bay (Open Bay) and shell sand is often present among the rocks.

Best Shells

Tucetona laticostata, Haliotis iris, Cookia sulcata.

Rare Finds

Mitra carbonaria (Green Point).

Onehunga Bay to Hongoeka Bay

This is an area of relative shelter, at the entrance to Porirua Harbour. It covers the harbour entrance and back into the harbour as far as the narrowest part of the channel south of Onehunga Bay across to Ngati Toa domain. The area is a mix of rocks and sheltered sandy beaches with a reef across the entrance to the harbour.

Best Areas for Shells

- **Whitireia Park, Onehunga Bay**

This area is accessed from Thornley Street in Titahi Bay. The road is narrow and one way in parts with excellent views. The road ends in a carpark with a grassed picnic spot and conveniences. The sheltered beach is sandy with rocks at either end. There is easy access onto the beach from the carpark. The road continues around the coast towards Titahi Bay for a short distance. A track in the opposite direction provides easy walking round to Porirua Harbour. The rocks to right of the carpark are the best areas for washups and living species. Clean, striped and white *Buccinulum linea* are under the rocks here and *Penion sulcatus* may also be found.

- **Karehana Bay**

Karehana Bay is across the railway line off State Highway 1 at Plimmerton. There is easy access onto the beach from the road which runs for a few kilometres round to Hongoeka Bay. The coastline is rocky with patches of sand. Few shells wash up in this area but there is much shell life under the rocks. The area by the boat club contains many live *Buccinulum* in particular. North of Hongoeka Bay the coastline becomes very rocky and exposed again.

Best Shells

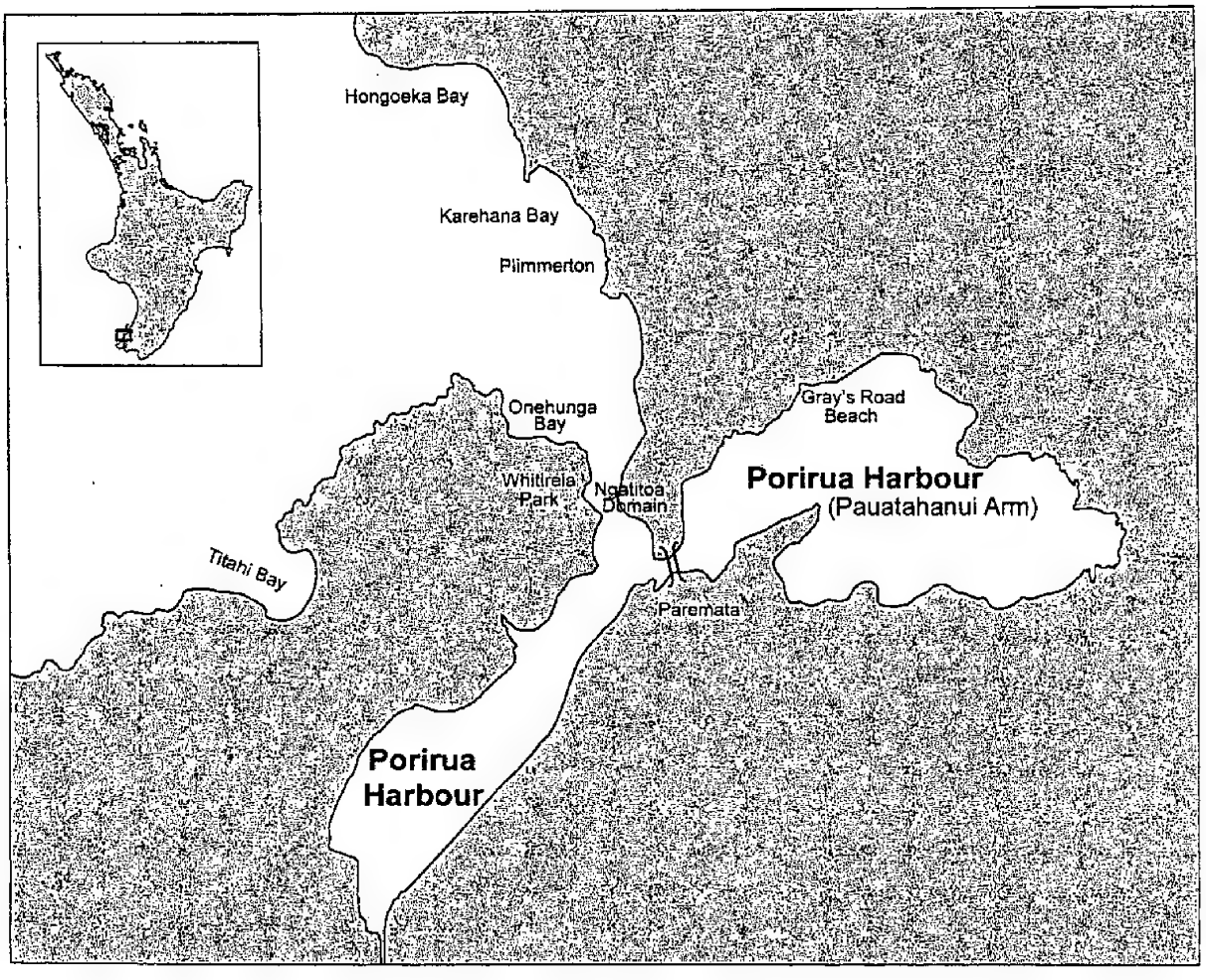
Buccinulum linea (striped and white), *Penion sulcatus.*

Rare Finds

Cabestana tabulata (dived from reef offshore).

Porirua Harbour/Pauatahanui Inlet

This area covers the inner harbour either side of the State Highway 1 road and rail bridges at Paremata. A road runs round most of the harbour and inlet with a walking track round the remainder. Most of the area contains typical shallow water harbour fauna (cockles etc). The most profitable area is alongside the walking track linking Mana to the beach where Gray's Road meets the inlet. Live, but colourless *Alcithoe arabica* are common in the mud here with *Buccinulum* and *Micrelenchus huttonii* under the rocks. Subfossil material can be found in the harbour and were included in early Club lists (Marston 2001).



Best Shells

Alcithoe arabica, Buccinulum linea, Haminoea zelandiae.

Note: - No distinction has been made as to the boundaries of Porirua Harbour and Pauatahanui Inlet as many maps and authors frequently use both names for the same area.

Kapiti Island

Kapiti Island is a marine reserve and wild life sanctuary. It is necessary to obtain a permit from the Department of Conservation to land on the island and there is a limit on the number of visitors per day. The collecting of shellfish is not permitted. The gravel beach where the boat lands in front of the ranger's house is the only area readily accessible to day-trippers. A steep and rough track leads to a lagoon and boulder bank to the north. The remainder of the island is mostly steep cliffs. *Astraea* and *Argonauta* occasionally wash up on the shore. Most shells on the list have been recorded by scuba diving.

Best Shells

Astraea heliotropium, Calliostoma tigris, Calliostoma pellucidum, Mitra carbonaria, Charonia lampas.

Paekakariki to Foxton

This area consists of one continuous sandy beach commencing at Paekakariki and interrupted by occasional stream mouths. There is good road access to most of the beach settlements along the coast.

Best Areas for Shells

- ### Raumati South

  This stretch of sandy beach is best accessed through Queen Elizabeth Park off State Highway 1 at McKay's (railway) crossing. The park is a popular picnic spot. You can catch the tram or drive through the park to the beach. Access onto the beach is easy at the end of the sealed road. Shell washups can be good here on either side of the stream mouth. Further south, washups of *Bassina yatei* and *Gari lineolata* have occurred in excellent condition.

- ### Paraparaumu to Waikanae

  Shell washups frequently occur along the beach here. The area around the Waikanae river mouth separating Paraparaumu from Waikanae and across to Kapiti Island is a marine reserve. Live *Alcithoe arabica* and *Semicassis pyrum* are commonly seen. Occasionally *Aeneator otagoensis, Bassina yatei, Alcithoe fusus, Calliostoma selectum* and *Calliostoma waikanae* can be found. Fossil shells may also wash up here.

- ### Waikawa Beach

  This beach is about 7 kms off State Highway 1 at Manakau. It is a small beach settlement with a large stream estuary. Shells wash in on either side of this. *Calliostoma selectum* was common here until the 1980s.

  #### Best Shells
  Semicassis pyrum, Alcithoe arabica, Alcithoe fusus, Astrofusus glans, Bassina yatei.

Rare finds

Calliostoma selectum/waikanae/pellucidum,Globisinum drewi, Coluzea spiralis, Aeneator otagoensis.

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SHELLS FOUND LOWER NORTH ISLAND WEST COAST
(Ohau Point to Foxton)

Name	Ohau Point to Pukerua Bay	Green Point	Onehunga Bay to Hongoeka Bay	Porirua Harbour	Kapiti Island	Paekakariki to Foxton	Comment	Occurrence
AMPHINEURA								
Leptochiton inquinatus				L	D			
Ischnochiton maorianus				L	D		Below low tide	
Callochiton kapitiensis					D		Type locality is off Kapiti	
Eudoxochiton nobilis					D			
Plaxiphora biramosa					D			
Chiton glaucus			D	L	D			
Rhyssoplax canaliculata	D							
Sypharochiton pelliserpentis				L	D			
Onithochiton neglectus				L	D			
Acanthochitona zelandica				L	D			
Notoplax mariae				L				
Notoplax rubiginosa					D		In eel slime at 60 metres	
Notoplax violacea					D			
Cryptoconchus porosus	D			L	D			
GASTROPODA								
Cellana denticulata	L	L	L	D	D	D		C
Cellana ornata		D	L	L	D			C
Cellana radians	L	L	L	L	D	D		C
Cellana stellifera		D	D		L		On low tide rocks at Kapiti	
Asteracmea suteri				D	D			
Atalacmea fragilis	D	L	L	D	D		Under smooth stones	C
Notoacmea elongata		D	L	L	D		Under smooth stones	C
Notoacmea helmsi	L		L	L				
Notoacmea pileopsis			D		D			
Patelloida corticata		D	D		D			
Radiacmea inconspicua	L		D		D		On backs of *Haliotis*	
Incisura lytteltonensis					D			
Sinezona brevis	D		L					
Sinezona laqueus			L				Dredged at 2-3 metres	
Haliotis iris	L	L	L	D	D	D		C
Haliotis australis	L	D	D	D	D	D		
Haliotis virginea	D	D	D		D	D		
Emarginula striatula	D				D			
Scutus breviculus	L	L	L	D	D	D		C
Tugali suteri		D	D					
Tugali elegans		D						
Monodilepas monilifera cookiana					D			
Cantharidella tesselata	L		L		D			
Cantharidus opalus	L	D	D		D	D		
Cantharidus purpureus	L	D	L		D	D	On seaweed	
Diloma arida	D	D			D			
Diloma bicanaliculata	L	L	D	L	D		Under stones	C
Diloma coracina					D			
Diloma nigerrima	D	D	D	D	D	D		
Diloma subrostrata			D	L	D			
Diloma zelandica		L			D		Near fresh water	C
Melagraphia aethiops	L	L	L	L	D	D		C
Microlenchus dilatatus		D	D		D			C
Microlenchus rufozona				L				
Microlenchus sanguineus		D	D		D			

SHELLS FOUND LOWER NORTH ISLAND WEST COAST
(Ohau Point to Foxton)

Name	Ohau Point to Pukerua Bay	Green Point	Onehunga Bay to Hongoeka Bay	Porirua Harbour	Kapiti Island	Paekakariki to Foxton	Comment	Occurrence
Micrelenchus huttonii				L				C
Micrelenchus tenebrosus			D		D			
Trochus viridis	L	D	D		D	D		
Trochus tiaratus			L	D	D		Dredged at 2-3 metres	
Liotella polypleura	D				D			
Herpetopoma bella		D	D		D			
Antisolarium egenum				D	D			
Zethalia zelandica	D		D		D	D		
Calliostoma osbornei					D		On grey *Anchorina* sponge with dished out hollows up to 600mm across.	R
Calliostoma pellucidum	D	D	D		L	D		
Calliostoma punctulatum	D	D	D	L	L	D		
Calliostoma selectum					D	L	Commonly found up till 1980s	U/C
Calliostoma tigris			D		L	D	On algae and *Anchorina* sponge under ledges and stones	R
Calliostoma waikanae					L	D	Dredged live off west side of Kapiti Island	U/C
Astraea heliotropium		D			L	D	Diver taken	
Cookia sulcata	L	D	L		L	D		C
Modelia granosa		D	D		D	D	Pieces	U/C
Turbo smaragdus	L	L	L	L	L	D		C
Dolicrossea vesca	D							
Nerita atramentosa		L	D		D	D	Loners on midtide stones	U/C
Zeacumantus lutulentus		D	D	L				
Zeacumantus subcarinatus	D	D	D	L		D		
Zeradina producta					D			
Maoricolpus roseus	D	D	L	L	D	D		
Zeacolpus blacki					D	D		
Zeacolpus pagoda								
Zeacolpus vittatus	D				D	D		
Dendropoma planata					D			
Novastoa lamellosa	D							
Serpulorbis zelandicus					D			
Tenagodus weldii					D			
Nodilittorina antipodum		L	L	L	D	D		
Nodilittorina cincta		L	D	L	D	D		
Risellopsis varia	D	D	D	L	D			
Eatoniella delli				L			In shell sand	
Eatoniella lampra	D	D					In shell sand	
Eatoniella limbata			D	L	D		In shell sand	
Eatoniella lutea			D				In shell sand	
Eatoniella olivacea	D		L		D		In shell sand	
Eatoniella roseocincta	D	D					In shell sand	
Amphithalamus incidatus maoria	D				D		In shell sand	
Amphithalamus semen		D					In shell sand	
Anabathron hedleyi			L				In shell sand	
Pisinna olivacea impressa	D						In shell sand	
Pisinna rekohuana				L			In shell sand	
Pisinna zosterophila			L		D		In shell sand	
Merelina lyalliana			D		D		In shell sand	
Onoba foveauxiana	D						In shell sand	
Powellisetia subtenuis					D		In shell sand	

SHELLS FOUND LOWER NORTH ISLAND WEST COAST
(Ohau Point to Foxton)

Name	Ohau Point to Pukerua Bay	Green Point	Onehunga Bay to Hongoeka Bay	Porirua Harbour	Kapiti Island	Paekakariki to Foxton	Comment	Occurrence
Pusillina hamiltoni			D		D		In shell sand	
Rissoina chathamensis	D	D	D		D		In shell sand	
Potamopyrgus antipodarum			D	L	D		In brackish stream water	
Potamopyrgus pupoides								
Cochliolepis albiceratus	D	D						
Caecum digitalum	D							
Struthiolaria papulosa	D	D	D		D	L		C
Pelicaria vermis		D			D	D		U/C
Maoricrypta sodalis	D	D	L	L	D	D		
Sigapatella novaezelandiae	D	D	D		D	D		
Sigapatella tenuis	D		D		D	D		
Trichosirius inornatus	D							
Lamellaria ophione					D			
Tanea zelandica	D	D	D		D	D		C
Globisinum drewi						D		R
Semicassis pyrum	D	D			D	L		C
Argobuccinum pustulosum tumidum		D	D		D	D		
Ranella australasia		D	D		L	D		
Cabestana spengleri		D	D		D	D		
Cabestana tabulata			L		D	D	Scuba from reef at harbour entrance	R
Charonia lampas		D			L	D	*C. rubicunda* form also	R
Cymatium parthenopeum					L	D	Off Tokomapuna Island	R
Monophorus fascelina					L			
Epitonium jukesianum					D			
Epitonium minora			D		D			
Janthina janthina					D	D		
Janthina exigua					D	D		
Curveulima titahica	D	D					Type locality is Titahi Bay	
Eulima perspicua					D			
Fusceulima murdochi	D							
Muricopsis octogonus					L	D	Dredged from 80m in shelly trough west of Arapawhiti rocks	
Paratrophon quoyi		D					Paekakariki rocks	R
Poirieria zelandica					D	D		
Xymene ambiguus			D	L	D	D		
Xymene aucklandicus				D				
Xymene huttoni					D			
Xymene mortenseni caudatinus					D			
Xymene plebeius				L				
Xymene traversi	D	D		L	D			
Haustrum haustorium	L	L	L	L	D	D		C
Lepsiella albomarginata			L	L				
Lepsiella scobina	L	L	L	L	D			C
Dicathais orbita	L	L	L	L	D	D		C
Coluzea spiralis					D	D		R
Aeneator otagoensis						D		U/C
Austrofusus glans		D	D		D	L		C
Buccinulum linea	L	D	L	L	L	D	Under rocks at low tide both striped and white varieties	C
Buccinulum vittatum			D	L	D			
Cominella adspersa	L	D	D	L	D	D		
Cominella glandiformis			D	L	D			

SHELLS FOUND LOWER NORTH ISLAND WEST COAST
(Ohau Point to Foxton)

Name	Ohau Point to Pukerua Bay	Green Point	Onehunga Bay to Hongoeka Bay	Porirua Harbour	Kapiti Island	Paekakariki to Foxton	Comment	Occurrence
Cominella maculosa	L	L	L	L	D	D	Some are orange coloured off Onehunga rocks	C
Penion sulcatus		D	L	L	D	D		U/C
Glaphyrina caudata					D			
Paxula paxillus				L				
Zemitrella choava				L	D			
Alcithoe arabica		D	D	L	D	L	Large and noduled in Porirua Harbour but dull colouring	C
Alcithoe fusus		D			D	D		U/C
Amalda australis		D	L	L	D	D	Dredged at 2-3 metres on sand	C
Amalda depressa		D	D		D			
Amalda mucronata		D		D	D	D		
Amalda novaezelandiae		D	D		D			
Dentimargo cairoma			D		D			
Mitra carbonaria		D			L			R
Austromitra rubiginosa		D	D	L	D			
Phenatoma rosea					D	D		
Phenatoma zealandica						D		
Liacraea odhneri			D					
Neoguraleus finlayi				D				
Neoguraleus interruptus				L				
Neoguraleus lyallensis	D	D	D					
Neoguraleus murdochi			D					
Neoguraleus sinclairi	L	D	D	L				
Pervicacia tristis		D	D			D		
Agatha georgiana			D					
Linopyrga rugata			D		D			
Odostomia incidata				D				
Chemnitzia aoteana			D					
Chemnitzia zelandica			D		D	D		
Striarcana cryptolira			D					
Volvulella nesentus		D			D			
Cylichnina striata				D				
Philine powelli					D			
Haminoea zelandiae				L				
Archidoris wellingtonensis				L				
Doriopsis flabellifera				L				
Jason mirabilis					L			
Onchidella nigricans				L	D		On seaweed covered rocks at low tide	
Benhamina obliquata	D	D			D			
Siphonaria australis	D	D	D	L	D			
Amphibola crenata	D		D	L		D		
Leuconopsis obsoleta			L		D			
Marinula filholi	D	D		L	D	D		
Ophicardelus costellaris				L			Under grass where stream enters harbour	
Austropeplea tomentosa					D			
BIVALVIA								
Solemya parkinsonii			D	L		D		
Leionucula strangei					D			

SHELLS FOUND LOWER NORTH ISLAND WEST COAST
(Ohau Point to Foxton)

Name	Ohau Point to Pukerua Bay	Green Point	Onehunga Bay to Hongoeka Bay	Porirua Harbour	Kapiti Island	Paekakariki to Foxton	Comment	Occurrence
Nucula hartvigiana	D	D	L	L	D		Dredged at 2-3 metres	
Nucula nitidula		D	L	D				
Acar sandersonae					D		In eel slime at 60 metres	
Barbatia novaezealandiae	D	D	D	D	D	D		
Glycymeris modesta		D	D		D	D	Dredged at 2-3 metres	
Tucetona laticostata		D			D	D	Large and common at Green Point	
Mytilus galloprovincialis		D	D	L	D			
Perna canaliculus		D	D	L	D	D		
Zelithophaga truncata			D		D			
Aulacomya atra maoriana		D	D	L	D			
Modiolus areolatus	D		D		D	D		
Xenostrobus pulex			L	L	D			
Modiolarca impacta		D	D	D		D		
Trichomusculus barbatus					D	D		
Atrina zelandica			D	L	D	L		
Crassostrea gigas				L		D		
Ostrea chilensis			D	L	D	D		
Pecten novaezelandiae		D			D	D		
Mesopeplum convexum		D			L	D	Living in areas of coarse grit or pebbles	
Talochlamys gemmulata					L	D	Living below 25m on dead *Glycymeris* shells and orange lace coral	
Talochlamys zelandiae	D	D	L		L	D	Attached to undersides of rocks	U/C
Pododesmus zelandicus			D	D	D	D		
Limatula maoria					D	D		
Hyridella menziesi						D		
Divalucina cumingi		D	D		D	D		
Diplodonta globus					D			
Diplodonta striatula			D		D			
Lasaea hinemoa			L	L				
Arthritica bifurca			D	D				
Arthritica crassiformis				L				
Borniola reniformis	D	D	L		D			
Melliteryx parva			L		D			
Myllita stowei		D			D			
Mysella unidentata					D			
Neolepton antipodum			L				From seaweed washings	
Anisodonta alata					D			
Cardita aoteana		D			D	D		
Pleuromeris zelandica					D			
Purpurocardia purpurata		D	D		D			
Talabrica bellula					D			
Pratulum pulchellum					D			
Cyclomactra tristis						D		
Cyclomactra ovata				L	D	D		
Mactra discors				D	D	D		
Mactra murchisoni					D	D		C
Maorimactra ordinaria					D		From eel slime at 60 metres	
Oxyperas elongata		D				D		
Scalpomactra scapellum			D		D	D		
Spisula aequilatera				D	D	L		C
Resania lanceolata				D		D		

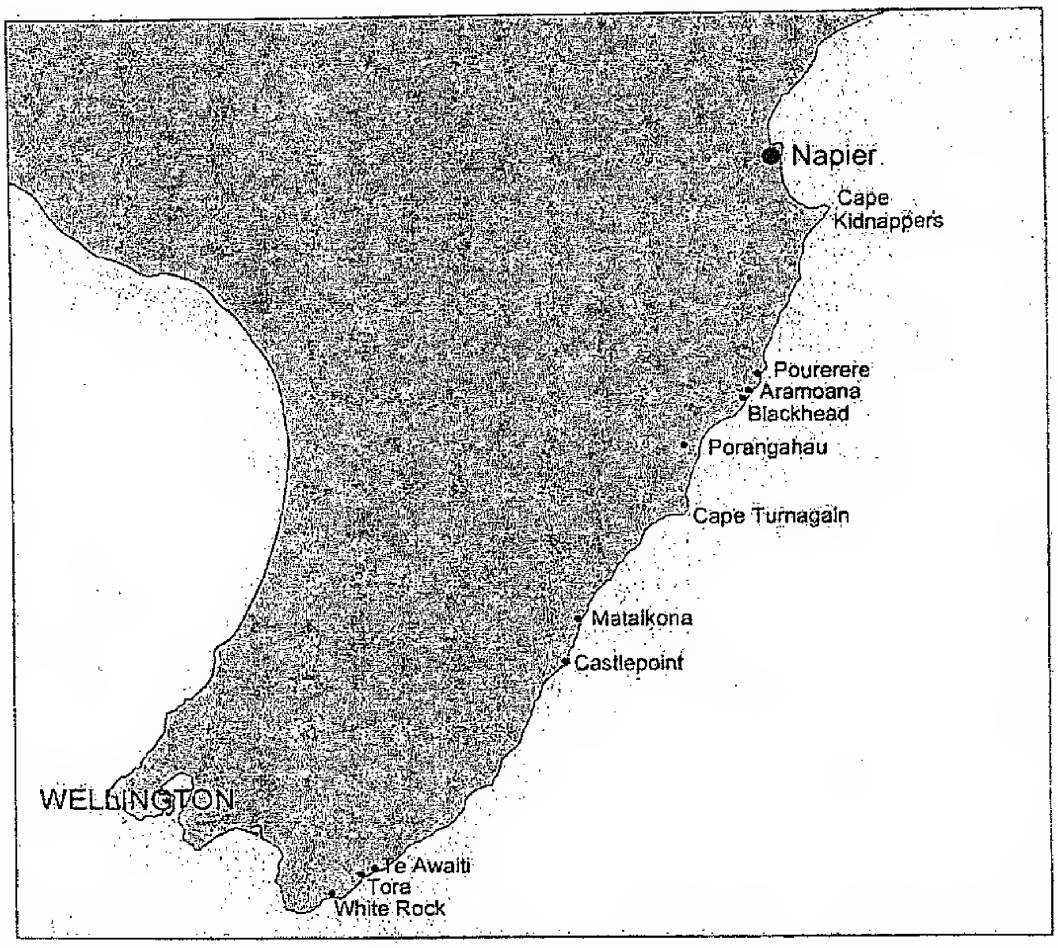
SHELLS FOUND LOWER NORTH ISLAND WEST COAST
(Ohau Point to Foxton)

Name	Ohau Point to Pukerua Bay	Green Point	Onehunga Bay to Hongoeka Bay	Porirua Harbour	Kapiti Island	Paekakariki to Foxton	Comment	Occurrence
Zenatia acinaces				L		D	From suction dredge	
Paphies australis			D	D	D	D		C
Paphies donacina						D		
Paphies subtriangulata			D	D	D	L		C
Paphies ventricosa						D		
Macomona liliana			D	L		D		C
Peronaea gaimardi			D	D	D	D		C
Pseudarcopagia disculus		D	D		D	D		
Rexithaerus spenceri						D		R
Serratina charlottae					D			R
Tellinota edgari					D			
Gari stangeri				D	D			
Gari lineolata		D	D	D	D	D		
Soletellina nitida			D		D	D	Dredged at 2-3 metres	
Soletellina siliquens				D	D	D		
Leptomya retiaria			D	L	D		Dredged at 2-3 metres	
Dosina crebra		D			D			
Dosina zelandica			D		D			
Austrovenus stutchburyi	D		D	L	D	D		
Bassina yatei			D		D	L	Nice frilled specimens	C
Protothaca crassicosta		D	L	L	D			
Tawera spissa	D	D	D		D	D		
Dosinia anus		D	D		D	D		C
Dosinia lambata		D			D			
Dosinia maoriana	D	D			D			
Dosinia subrosea		D	D	D	D	D		C
Notocallista multistriata		D						
Irus reflexus	D	D	D	D				
Irus elegans						D		
Ruditapes largillierti	D	D	D		D			
Corbula zelandica	D	D	D		D			
Hiatella arctica	D	D	D	D	D			
Panopea zelandica		D			D	D		
Barnea similis					D	D		
Offadesma angasi			D			D		
Hunkydora novozelandica					D			
Cuspidaria trailli					D			
Thracia vegrandis					D			
Myadora novaezelandiae					D			
Myadora striata		D	L	L	D	D		C
Cleidothaerus albidus			D		D	D		
SCAPHOPODA								
Antalis nana					D	D		
CEPHALOPODA								
Spirula spirula	D		D		D	D		
Argonauta nodosa			D	D	D	D	Most often in March	R
Sepia apama					D			

SHELLS FOUND LOWER NORTH ISLAND EAST COAST
(White Rock to Cape Kidnappers)

White Rock to Cape Turnagain

This area covers the Wairarapa coastline. The coast can be reached by secondary roads from Martinborough, Masterton and Dannevirke. Other than Castlepoint and Riversdale which are accessed by a good sealed road from Masterton, most of the other access roads are unsealed and winding. Shell wash-ups are very limited but a lot of shell life can found in the intertidal areas. The coastline is mostly rocky being a mix of mudstone and Cretaceous rocks with a few sandy beaches.



Best Areas for Shells

- **Tora - Te Awaiti**

  Access is by an unsealed, but easy driving, road of about one hour from Martinborough. There is no public accommodation but numerous private baches. The coastline is rough and rocky with a mix of gravel and some sand. There is good diving for paua and crayfish. Patches of shell sand can be found among the rocks in front of the Te Awaiti Station although this may be inaccessible if the river has broken through the bar of the Oterei river.

Best Shells

Haliotis iris, Epitonium jukesianum, Benhamina obliquata, Siphonaria propria.

Rare Finds

Buccinulum vittatum, Cominella mirabilis, Philippia lutea.

- **Castlepoint**

Castlepoint is about a one hour drive on a good sealed road from Masterton. There is a hotel, motel, shop and camping ground, also baches to hire. The scenery is excellent with a lighthouse, reef, lagoon, long sandy beach and sheer cliffs. Occasional wash-ups occur on the main beach but the best area for shell life is in the rockpools by an exposed outcrop of mudstone below the lighthouse. This area, along with a cave which runs right under the lighthouse, can only be reached at low tide. *Trivia merces* has been found washed up in this area. Good shell life exists around and under the rocks. *Buccinulum colensoi* is under mudstone rocks. Look also at the hermit crab shells in the sandy pools closer to the beach. Fossils are common in the various rock strata. Patches of shell sand may be found along the shoreline which follows the road north to Mataikona. Unusual "tram-track" rock formations are exposed along the shoreline here at low tide. *Cellana flava* can be found on the mudstone rocks.

Best Shells

Cellana flava (Mataikona road), *Xymene huttoni, Argobuccinum pustulosum tumidum, Buccinulum colensoi, Buccinulum linea* (whitish).

Rare Finds

Nerita atramentosa, Crepidula profunda, Trivia merces, Paratrophon quoyi.

Porangahau to Cape Kidnappers

This area covers the beaches in southern Hawke Bay. Road access to the beaches is best from Dannevirke, Waipawa, Waipukurau or Hastings. Many of these roads are unsealed. The coastline is mostly mudstone with large areas of reef, interspersed with sandy beaches.

Best Areas for Shells

- **Blackhead / Aramoana / Pourerere**

Access to all three is by a good road from Waipawa. Accommodation is very limited with most camping sites leased out permanently. This is an area where extensive mudstone platforms are exposed at the low tide, separated by golden sandy beaches. There is a marine reserve from Aramoana to Blackhead. Few shell wash ups occur although patches of shell sand can be found among the rocks.

Best Shells

Cookia sulcata (nice orange specimens), *Buccinulum colensoi.*

Rare Finds

Ranella australasia.

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SHELLS FOUND LOWER NORTH ISLAND EAST COAST
(White Rock to Cape Kidnappers)

Name	Te Awaiti / Tora	Castlepoint	Pourerere to Blackhead	Cape Kidnappers		Comment	Occurrence
AMPHINEURA							
Leptochiton inquinatus		L					
Ischinochiton maorianus	L	L				Under low tide stones	
Lepidozona beui	D					Snagged on net at 160 metres	
Plaxiphora caelata	D						
Plaxiphora egregia	L					Inside kelp holdfast	
Chiton glaucus		L					
Rhyssoplax aerea	L					Under low tide stones	
Sypharochiton pelliserpentis	L	L		L		Under low tide stones	
Ornithochiton neglectus		D					
Acanthochitona zelandica	L	D					
Notoplax violacea		D					
GASTROPODA							
Cellana denticulata	L	L	L			On mid tide rocks	
Cellana flava		L	L	L		On mid tide mudstone rocks	
Cellana ornata	L	L					
Cellana radians	L	L	L	L			
Cellana stellifera	L						
Asteracmea suteri	D	L	D	D		In shell sand	
Atalacmea fragilis	L						
Notoacmea elongata	D	L					
Notoacmea parviconoidea		L	D				
Notoacmea pileopsis	L						
Notoacmea scopulina		D					
Patelloida corticata	L	L					
Radiacmea inconspicua	L					On backs of *Haliotis*	
Maoricrater explorata	D					Snagged on net at 160 metres	
Scissurona rosea	D					Among sand and weed	
Haliotis iris	L	L	L	D			C
Haliotis australis	L	D	L				
Haliotis virginea	L					Snorkled from outer rocks at low tide	R
Emarginula striatula	D	D				Under low tide stones	
Scutus breviculus	L	L	L	D		Under low tide rocks	C
Tugali suteri	D					Under low tide rocks	
Cantharidella tesselata	L	L	L	L		Living on brown seaweed	C
Cantharidus opalus	L	L	D			On brown weed at extreme low tide	
Cantharidus purpureus	D	L					
Diloma bicanaliculata	L	L				Under low tide stones	
Diloma coracina			L			Around edge of sandpools	
Diloma nigerrima	L					On washed up kelp	
Diloma subrostrata		D					
Diloma zelandica	L	L				On midtide rocks	
Melagraphia aethiops	L	L	L	L		On midtide rocks	
Micrelenchus dilatatus	L	L	D			Under low tide stones	
Micrelenchus sanguineus	D	L	D			Under low tide stones	C
Micrelenchus tenebrosus	L					Under low tide stones	
Thoristella chathamensis	D					In shell sand	U/C
Trochus tiaratus		D					
Trochus viridis		D		D			
Herpetopoma bella	L	D	L			Under low tide stones	

SHELLS FOUND LOWER NORTH ISLAND EAST COAST
(White Rock to Cape Kidnappers)

Name	Te Awaiti / Tora	Castlepoint	Pourerere to Blackhead	Cape Kidnappers		Comment	Occurrence
Liotella polypleura	D					Among sand and weed	
Antisolarium egenum			D				
Zethalia zelandica		D		D			
Calliostoma punctulatum	D	D					
Calliostoma tigris		D					
Cookia sulcata	L	L	D	D		In low tide crevices. Nice orange colour in Southern Hawke Bay	
Modelia granosa		D					
Turbo smaragdus	L	L	L	L			
Nerita atramentosa	L	L				Loners on midtide rocks	R
Zeacumantus lutulentus	D		D				
Maoricolpus roseus	D						
Zeacolpus pagoda				D			
Nodolittorina antipodum	L	L		L			C
Nodolittorina cincta	L	L		L			
Risellopsis varia		D	D				
Eatoniella albocolumella		L		L			
Eatoniella lutea	D						
Eatoniella olivacea	D	L	D	L		In shell sand	
Pupatonia puniceomacer				D			
Eatonia atomaria				D			
Amphithalamus incidatus maoria		D					
Amphithalamus latisulcus		D					
Amphithalamus semen		L		L			
Anabathron hedleyi		L					
Pisinna zosterophila	D	L		L			
Merelina lyalliana		L	D	L			C
Onoba foveauxiana	D					In shell sand	
Pusillina hamiltoni	D	L		L			
Rissoina chathamensis	L	D		D			
Caecum digitalum		L					
Struthiolaria papulosa				D			
Maoricrypta sodalis		L					
Maoricrypta youngi		L				Under rock, on *Turbo smaragdus*	R
Sigapatella novaezelandiae		D		D			
Sigapatella tenuis	L	L				Snagged on net at 160 metres	
Trichosirius inornatus	L					Under low tide stones	
Trivia merces		D		D			R
Tanea zelandica	D	D				Under low tide stones	
Semicassis pyrum		D					
Argobuccinum pustulosum tumidum	L	L				Under rock ledges at extreme low tide	U/C
Ranella australasia	L	L		D		On low tide reefs in southern Hawke Bay	R
Cabestana spengleri				D			
Sagenotriphora ampulla				L			
Epitonium jukesianum	L	D	D			In sandy crevices at extreme low tide	U/C
Janthina exigua	D						
Janthina globosa	D						
Fusceulima sp.	D						
Paratrophon quoyi		D					R
Xymene huttoni	D	D					
Xymene traversi	D	D	D				
Haustrum haustorium	L	L					C

SHELLS FOUND LOWER NORTH ISLAND EAST COAST
(White Rock to Cape Kidnappers)

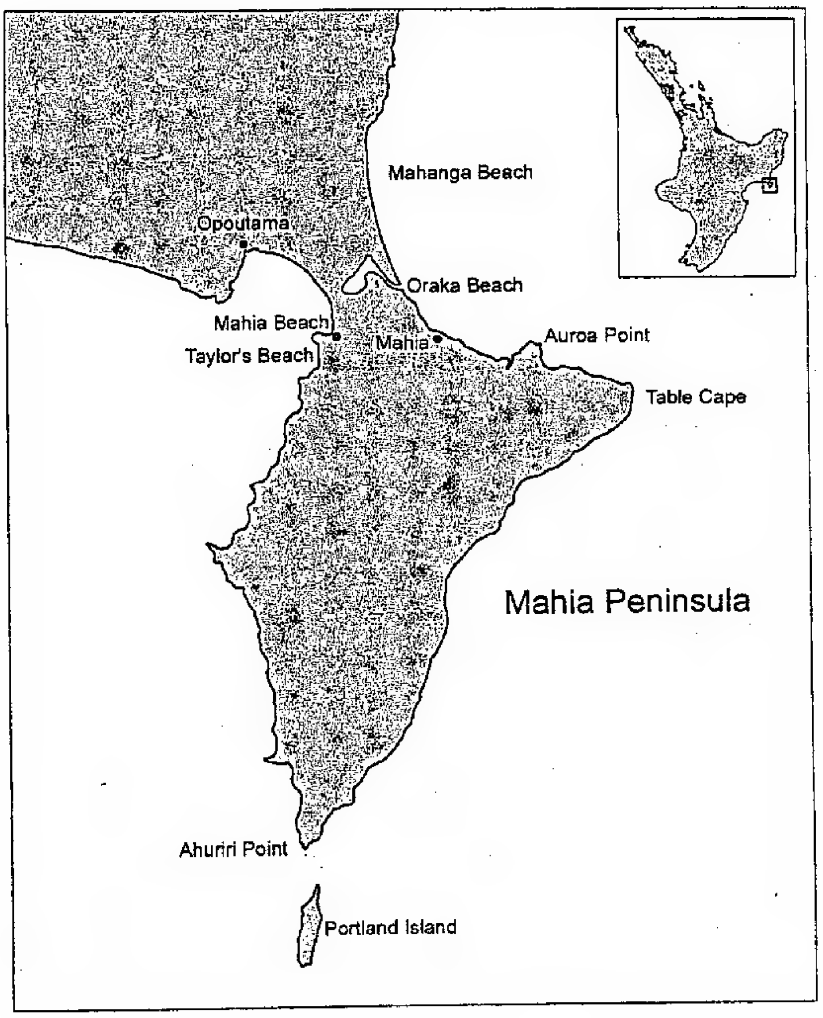
Name	Te Awaiti / Tora	Castlepoint	Pourerere to Blackhead	Cape Kidnappers		Comment	Occurrence
Lepsiella albomarginata		L					
Lepsiella scobina	L	L	L				
Lepsithais lacunosus	L					On low tide rocks	
Dicathais orbita	L	L	L	L			
Austrofusus glans		D					
Buccinulum colensoi		L	L			Under low tide mudstone rocks	C
Buccinulum linea	L	L	L			Low tide rocks - whitish variety on mudstone rocks - could be *pallidum*	U/C
Buccinulum vittatum	L	D				Under low tide (non mudstone) rocks	U/C
Cominella adspersa	L		L				
Cominella glandiformis	L						
Cominella mirabilis	D					Snagged on net at 160 metres	R
Cominella maculosa	L	L	L			In mid tide pools	
Penion sulcatus		L	D	D			
Zemitrella choava	D			D			
Zemitrella fallax				D			
Alcithoe arabica	D						
Amalda australis	D	D					
Amalda mucronata	D	D					
Dentimargo cairoma	L		D			Under low tide stones	
Austromitra rubiginosa	L			L		On underside of stones at low tide	
Lucerapex angustatus	D					Snagged on net at 160 metres	
Antimelatoma buchanani maorum	D					Snagged on net at 160 metres	
Tomopleura albula	D					Snagged on net at 160 metres	
Neoguraleus amoenus	L					In shell sand	
Neoguraleus sinclairi	D		D				
Pervicacia tristis		D					
Philippia lutea	D					Needs verification	R
Linopyrga rugata	D						
Odostomia sp	D					Snagged on net at 160 metres	
Chemnitzia sp.		L		D			
Eulimella sp	L					Snagged on net at 160 metres	
Striaracana cryptolira	D					In shell sand	
Turbonilla sp.	D					In shell sand	
Aplysia keraudreni		L					
Onchidella nigricans		L					
Trimusculus conicus	D						
Benhamina obliquata	L					On shaded side of mid tide rocks	
Siphonaria australis	L	L		L		In kelp holdfasts and mid tide pools	
Siphonaria propria	D	L		L			
Marinula filholi	L					In high tide crevices	
BIVALVIA							
Nucinella maoriana	D					Snagged on net at 160 metres	
Nucula hartvigiana	D	D				In shell sand	
Nucula nitidula		D					
Barbatia novaezealandiae	D			D			
Tucetona laticostata	D						
Cosa serratocostata		D		D			
Philobrya acutangula				D			

SHELLS FOUND LOWER NORTH ISLAND EAST COAST
(White Rock to Cape Kidnappers)

Name	Te Awaiti / Tora	Castlepoint	Pourerere to Blackhead	Cape Kidnappers		Comment	Occurrence
Mytilus galloprovincialis		L				On mid tide rocks	
Perna canaliculus		L		D			
Zelithophaga truncata		D					
Aulacomya atra maoriana	D	L					
Modiolus areolatus	D	L					
Xenostrobus pulex	L	L	D	L			C
Modiolarca impacta		L					
Trichomusculus barbatus		D					
Atrina zelandica				D			
Ostrea chilensis	D					Snagged on net at 160 metres	
Mesopeplum convexum	L					Snagged on net at 160 metres	
Talochlamys gemmulata	L					Snagged on net at 160 metres	
Talochlamys zelandiae	L	L					
Pododesmus zelandicus		D					
Lima zelandica	D					Snagged on net at 160 metres	
Gonimyrtea concinna	D					Snagged on net at 160 metres	
Felaniella zelandica		D					
Bomiola reniformis	L	L		D		Under stones	
Melliteryx parva		D					
Myllita stowei	L	D				Under stones	
Kellia cycladiformis	L					Snagged on net at 160 metres	
Neolepton antipodum	D	L	D			Snagged on net at 160 metres	
Cardita aoteana	L	D				Snagged on net at 160 metres	
Pleuromeris zelandica	D					Snagged on net at 160 metres	
Purpurocardia purpurata	D			D			
Volupicuna mayi	L					Snagged on net at 160 metres	
Pratulum pulchellum	D					Snagged on net at 160 metres	
Scalpomactra scapellum		D					
Spisula aequilatera		L	D	D			
Zenatia acinaces		D					
Paphies subtriangulata		D					
Peronaea gaimardi		D					
Pseudarcopagia disculus		D	D				
Rexithaerus spenceri	L					Under low tide stones	R
Soletellina nitida		D					
Leptomyra retiaria		L					
Gaimardia finlayi		D		L			
Austrovenus stutchburyi				D			
Protothaca crassicosta	L	D	D	D		Under low tide stones	
Tawera spissa		D		D			
Irus elegans				D			
Irus reflexus			D				
Ruditapes largillierti	D	D					
Corbula zelandica		D					
Hiatella arctica	D			L			
Barnea similis		D		D			
Pholadidea suteri		D		D			
Pholadidea tridens	D		D			Snagged on net at 160 metres	
CEPHALOPODA							
Spirula spirula		D					

SHELLS FOUND AT MAHIA

Mahia is situated off State Highway 2 between Wairoa and Gisborne. Mahia is a peninsula linked to the mainland by two long sandy beaches. There are motor camps, motels, a tavern and homestays. Mahia has a variety of collecting situations with mudstone reefs, beaches, streams, a lagoon and small harbour all situated within a short distance of each other and easily assessed by vehicle.



Best Areas for Shells

- **Opoutama / Mahia Beach**

  This is a long sandy beach facing Hawke Bay. The best washups occur at each end of the beach, particularly where patches of peat and wood pulp material wash in at the low tide. Striped and grey *Buccinulum colensoi* are found under rocks and both species of *Argonauta* and *Semicassis labiata* may wash up on the beach.

- **Oraka Beach**

This is a small sand beach near a lagoon mouth facing north. It is good for shell washups and shell and hermit crab life on the reefs exposed at the low tide. Good specimens of *Mactra, Cookia sulcata, and Alcithoe arabica* frequently wash up on the beach with *Cellana flava* and a variety of shell life to be found on the reef.

- **Auroa Point**

This is an excellent area for shell sand and the occasional wash up of larger species. There are two separate areas where you can park off the road, with shell sand in front of each. Because of the smaller size of the material, you need to get down to closely examine it or alternatively gather up a bag to take home and sort later. This is a good area for *Thoristella opressa, Crepidula profunda, Trivia merces, Buccinulum fuscozonatum, Mitra carbonaria, Philippia lutea,* and *Serrata mustellina.*

Best Shells

Cellana flava, Thoristella opressa, Calliostoma tigris, Cookia sulcata, Crepidula profunda, Trivia merces, Semicassis labiata, Buccinulum colensoi, Alcithoe arabica, Mactra discors.

Rare Finds

Buccinulum fuscozonatum, Muricopsis mariae, Paratrophon quoyi, Mitra carbonaria, Philippia lutea, Argonauta nodosa and *A. argo.*

Note : Mahia marks the southernmost record of many northern New Zealand species.

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SHELLS FOUND AT MAHIA

Name	Opoutama / Mahia beach	Taylor's Beach to Portland Isl.	Mahanga Beach	Oraka Beach	Auroa Point	Table Cape to Portland Island	Location not specified	Comment	Occurrence
AMPHINEURA									
Ischnochiton maorianus			L						
Eudoxochiton nobilis							L		
Chiton glaucus			L						
Sypharochiton pelliserpentis			L						
GASTROPODA									
Cellana flava	D	L	D	L	L	D		On mid tide rocks. Some with black flecks	C
Cellana ornata		L			D	L			C
Cellana radians	D	D	D	L	D	D		Large, clean specimens	C
Cellana stellifera				D	D				
Asteracmea suteri					D			In shell sand	
Atalacmea fragilis					D			Under clean, smooth stones	
Notoacmea elongata		L	D		D				
Notoacmea parviconoidea					D	L			
Notoacmea pileopsis		L			L				
Notoacmea scopulina					D				
Patelloida corticata		L	D		D	L			
Radiacmea inconspicua	D	D			D	L			
Sinezona brevis					D				
Haliotis iris	D		D	L	D	L			
Haliotis australis			D	D	D	D			
Haliotis virginea crispata		D			D	D		Large, clean specimens	U/C
Emarginula striatula			D		D				
Scutus breviculus			L	L	D				C
Tugali suteri	D	D			D	D			
Tugali elegans							D		
Monodilepas sp.					D				
Cantharidella tesselata	D	L		L	D	D			
Cantharidus opalus				D	D	D		Tall spired	C
Cantharidus purpureus		D		D	D	D			C
Diloma arida		L							
Diloma bicanaliculata			D						
Diloma subrostrata	D	D			D	D			
Diloma zelandica		D				L			
Fossarina rimata					D			In shell sand	U/C
Melagraphia aethiops		D	L	L	D	L		On midtide rocks	C
Micrelenchus dilatatus		L		D	D	L			
Micrelenchus sanguineus		D			D	D			C
Thoristella oppressa					D			In shell sand	C
Trochus viridis	D	D		D	D	D		Clean, green specimens	C
Herpetopoma bella		D			D	D			C
Herpetopoma larochei					D			In shell sand	
Antisolarium egenum					D			In shell sand	
Zethalia zelandica		D	D	D				Common at Mahanga beach	C
Calliostoma osbornei					D				
Calliostoma pellucidum	D			D	D			Tall spired	U/C
Calliostoma punctulatum	D			D	D				C
Calliostoma tigris	D			D	L				U/C
Astraea heliotropium		D			D				
Cookia sulcata	D	D	D	L	D	L		Good condition,orange colour	C
Modelia granosa		D	D	D	D			Pieces only, small	
Turbo smaragdus		D		L	D	D			
Dolicrossea vesca					D			In shell sand	
Zalipais lissa					D				
Nerita atramentosa			D		D	L			

SHELLS FOUND AT MAHIA

Name	Oputama / Mahia beach	Taylor's Beach to Portland Isl.	Mahanga Beach	Oraka Beach	Auroa Point	Table Cape to Portland Island	Location not specified	Comment	Occurrence
Zeacumantus lutulentus				L	D				
Zeacumantus subcarinatus					L	L			
Zemelanopsis trifasciata					D				
Maoricolpus roseus	D	D	D		D				
Zeacolpus pagoda			D						
Tenagodus weldii					D			In shell sand	
Stephopoma rosea					D				
Nodilittorina antipodum		D			L	D		High tide rocks	
Nodilittorina cincta					L			High tide rocks	C
Risellopsis varia					D			In shell sand	
Eatoniella flammulata					D			In shell sand	
Eatoniella limbata					D			In shell sand	
Eatoniella lutea					D			In shell sand	
Eatoniella olivacea					D			In shell sand	
Eatoniella roseola					D			In shell sand	
Eatoniella roseocincta					D			In shell sand	
Amphithalamus semen					D			In shell sand	
Anabathron hedleyi					D			In shell sand	
Pisinna rekohuana					D			In shell sand	
Fictonoba carnosa					D			In shell sand	
Merelina lyalliana					D			In shell sand	
Merelina plaga					D			In shell sand	
Merelina taupoensis					D			In shell sand	
Onoba candidissima					D			In shell sand	
Powellisetia sp.					D			In shell sand	
Pusillina hamiltoni					D			In shell sand	
Pusillina infecta					D			In shell sand	
Rissoina chathamensis		D			D	D		In shell sand	
Nozeba emarginata					D			In shell sand	
Struthiolaria papulosa	D		L	D				Washed in live, lightweight	U/C
Pelicaria vermis	D							Hermit crabbed	
Maoricrypta costata					D			One only, may be *profunda*	
Maoricrypta sodalis	D				D	D		Inside dead shells	
Maoricrypta youngi					D			In shell sand	U/C
Sigapatella novaezelandiae	D	D		D	D	D		Oval shaped	
Sigapatella tenuis					D				
Trivia merces				D	D			In shell sand	U/C
Lamellaria ophione					D				
Tanea zelandica			D	D	D				
Semicassis labiata	L							Washed in with peat debris	U/C
Semicassis pyrum	D		D	D	D				U/C
Tonna cerevisina	D							Small	R
Argobuccinum pustulosum tumidum	D		D	D	D			Pieces	
Ranella australasia	D			D	D	L			
Cabestana spengleri				D	D			Pieces	
Cabestana tabulata					D			Diver taken near boat harbour entrance	R
Cymatium parthenopeum	D							Pieces	
Sassia parkinsonia					D				
Cerithiopsis powelli					D			In shell sand	
Prolixodens infracolor					D			In shell sand	
Seila cincta					D			In shell sand	
Synthopsis caelata					D			In shell sand	
Zaclys murdochi					D			In shell sand	
Monophorus fascelina					D			In shell sand	
Nototriphora aupouria					D			In shell sand	
Sagenotriphora ampulla					D			In shell sand	

SHELLS FOUND AT MAHIA

Name	Opoutama / Mahia beach	Taylor's Beach to Portland Isl.	Mahanga Beach	Orāka Beach	Auroa Point	Table Cape to Portland Island	Location not specified	Comment	Occurrence
Cirsotrema zelebori				D				In shell sand	
Epitonium jukesianum					D			In shell sand	
Epitonium bucknilli							D		
Janthina janthina					D				
Janthina exigua					D				
Muricopsis mariae				D				May be *Muricopsis octogonus*	
Muricopsis octogonus		D		D	D				
Paratrophon quoyi	L			D	D			On low tide rock	R
Poirieria zelandica	D		D	D				Piece	
Xymene huttoni	D				D				
Xymene traversi	D				D				
Dicathais orbita		L	L	L	D	L		Large,smooth	C
Agnewia tritoniformis			D		D			Worn	
Haustrum haustorium		D		L	L	L			C
Lepsiella scobina		L	L		D	L			
Austrofusus glans	D		D	L				Washed ashore with animal	C
Buccinulum colensoi	L	L		D	D	L		Under stones; various colours	C
Buccinulum linea		L		D	D				U/C
Buccinulum fuscozonatum				D	L			Live specimens taken by divers	U/C
Buccinulum pallidum						L		May be white *Buccinulum linea*	
Buccinulum vittatum		D			D			May be *Buccinulum colensoi*	U/C
Cominella adspersa	D	D		L					
Cominella glandiformis					D	L			
Cominella maculosa		L		L	D	D			
Cominella quoyana					D				
Cominella tolagaensis			D		D				R
Cominella virgata			D	L	D	L			
Penion sulcatus	L		L	D				In rock crevices most are solid heavy specimens	U/C
Taron dubius		L		L	D	D		Large, clean specimens	U/C
Liratilia sinuata					D			In shell sand	
Macrozafra nodicincta					D			In shell sand	
Paxula paxillus					D			In shell sand	
Zemitrella stephanophora					D			In shell sand	
Alcithoe arabica	D		D	D	D				
Alcithoe fusus			D	D	D				
Amalda australis	D			D	D				
Amalda mucronata					D				
Serrata mustelina					D			In shell sand	
Mesoginella pygmea					D			In shell sand	
Dentimargo cairoma					D			In shell sand	
Mitra carbonaria					D			Washed up in high tide weed	U/C
Austromitra rubiginosa		D			D				
Austrodrillia rawitensis					D				
Phenatoma rosea			D						
Phenatoma zealandica	D				D				
Liracraea odhneri					D			In shell sand	
Neogyraleus interruptus					D			In shell sand	
Neogyraleus lyallensis		D						In shell sand	
Neogyraleus murdochi		D			D			In shell sand	
Neogyraleus sinclairi		D			D	D		In shell sand	
Pervicacia tristis					D			In shell sand	
Philippia lutea					D			In shell sand	U/C
Rissoella rissoaformis					D			In shell sand	
Linopyrga rugata					D				
Odostomia sp					D				
Eulimella sp.					D				
Turbonilla sp.					D			In shell sand	

SHELLS FOUND AT MAHIA

Name	Opoutama / Mahia beach	Taylor's Beach to Portland Isl.	Mahanga Beach	Oraka Beach	Auroa Point	Table Cape to Portland Island	Location not specified	Comment	Occurrence
Pupa kirki					D			In shell sand	
Trimusculus conicus					D	D			
Siphonaria propria					D				
Siphonaria australis	D	L			D	D			
Amphibola crenata				D					
Leuconopsis obsoleta					D				
Ophicardelus costellaris					D				
BIVALVIA									
Nucula hartvigiana		D			D	D			
Nucula nitidula					D				
Acar sandersonae					D				
Acar sociella					D				
Barbatia novaezealandiae	D			D	D				
Cosa filholi					D				
Philobrya munita					D				
Mytilus galloprovincialis				D	D				
Perna canaliculus				D	D	D			
Zelithophaga truncata				D	D				
Aulacomya atra maoriana			D	D	D	D			
Modiolus areolatus		D		D	D				
Xenostrobus pulex				D	D	L			
Modiolarca impacta					D				
Trichomusculus barbatus					D				
Atrina zelandica			D						
Ostrea chilensis		D							
Pecten novaezelandiae			D						
Talochlamys zelandiae	D	D		D	D			Small, also *zeelandona* form	
Anomia triganopsis	D								
Pododesmus zelandicus			D						
Divalucina cumingi	L				D			Very large	
Diplodonta globus		D			D				
Diplodonta striatula	D	D			D				
Lasaea hinemoa					D			In shell sand	
Bomiola reniformis	D				D	D		In shell sand	
Melliteryx parva					D			In shell sand	
Myllita stowei		D			D	D		In shell sand	
Mytella vivens					D			In shell sand	
Kellia cycladiformis		D			D			In shell sand	
Scintillona zelandica					D			In shell sand	
Kidderia costata					D			In shell sand	
Neolepton antipodum					D			In shell sand	
Cardita aoteana		D	D		D				
Talabrica bellula					D				
Cyclomactra tristis				D					
Mactra discors			D	D					
Mactra murchisoni				D					
Scalpomactra scalpellum					D				
Spisula aequilatera	D		D	D				Doubles not common	
Resania lanceolata	D		D	D				Single valves only	
Zenatia acinaces	D		D					Single valve damaged	
Paphies australis	D		D	L	D				
Paphies subtriangulata	D		D	L					
Macomona liliana			D			D			
Peronaea gaimardi	D		D	D					
Pseudarcopagia disculus	D			D	D				
Rexithaerus spenceri	D							Half valve	

SHELLS FOUND AT MAHIA

Name	Opoutama / Mahia beach	Taylor's Beach to Portland Isl.	Mahanga Beach	Oraka Beach	Auroa Point	Table Cape to Portland Island	Location not specified	Comment	Occurrence
Gari stangeri	D							Nice patterns	
Gari lineolata	D		D						
Soletellina nitida	D		D						
Leptomya retiaria		D			D	D			
Dosina crebra			D						
Austrovenus stutchburyi			D	D		D			
Bassina yatei			D						U/C
Protothaca crassicosta	L				D			Half covered in silt	
Tawera spissa					D				
Dosinia anus	D		D	D					
Dosinia subrosea	D			D					
Irus reflexus	D	D			D	D			
Irus elegans		D		D					
Ruditapes largillierti					D				
Corbula zelandica		D			D	D			
Hiatella arctica		D	D	D	D	L			
Barnea similis		D		D		D			
Pholadidea suteri	L	L		D	D	D		Common in mudstone	
Offadesma angasi	D				D			Single valve, damaged	
Myadora antipodum					D				
Myadora striata	D		D		D				
Cleidothaerus albidus	D								
SCAPHOPODA									
Antalis nana			D					Cast up in sponge	
CEPHALOPODA									
Spirula spirula				D					
Argonauta argo	L							Most commonly seen April /May	U/C
Argonauta nodosa	D							" " "	U/C

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